California Total Maximum Daily Load (TMDL)

Program Status Summary Report

Fiscal Year 2009 – 2010

July 2010

State Water Resources Control Board
Regional Water Quality Control Boards

Table of Contents

TMDL Program Performance at a Glance

Overall Program Performance

TMDLs Adopted through June FY 09-10 = 162

Current CWA 303(d) Listings Addressed through June FY 09-10 = 987

Percentage of Current CWA 303(d) Listings Addressed through June FY 09-10 = 44%

Total Number of All CWA 303(d) Listings Addressed through June FY 09-10 = 1193

Current Year Program Performance – FY 09-10 (July– June)

Region 1 [a]

53/61 = 87% Workplan TMDL Commitments Completed
1/2 = 50% TMDLs Completed/Scheduled
17 303d Listings addressed in 09-10
2 TMDLs scheduled for adoption in FY 09-10
18 Number of 303d listings scheduled 09-10

Region 2 [b]

30/36 =83% Workplan TMDL Commitments Completed
1/1 = 100% TMDLs Completed/Scheduled
0 303d Listings addressed in 09-10
1 TMDLs scheduled for adoption in FY 09-10
0 Number of 303d listings scheduled 09-10

Region 3

31/33 = 94% Workplan TMDL Commitments Completed
0/2 = 0% TMDLs Completed/Scheduled
0 303d Listings addressed in 09-10
2 TMDLs scheduled for adoption in FY 09-10
24 Number of 303d listings scheduled 09-10

Region 4 [c]

41/59 = 69% Workplan TMDL Commitments Completed
2/6 = 33% TMDLs Completed/Scheduled
13 303d Listings addressed in 09-10
8 TMDLs scheduled for adoption in FY 09-10
95 Number of 303d listings scheduled 09-10

Region 5

61/80 = 76% Workplan TMDL Commitments Completed
1/2 = 50% TMDLs Completed/Scheduled
8 303d Listings addressed in 09-10
2 TMDLs scheduled for adoption in FY 09-10
42 Number of 303d listings scheduled 09-10

Region 6

27/35 = 77% Workplan TMDL Commitments Completed
0/1 = 0% TMDLs Completed/Scheduled
0 303d Listings addressed in 09-10
1 TMDLs scheduled for adoption in FY 09-10
3 Number of 303d listings scheduled 09-10

Region 7 [b]

18/29= 62% Workplan TMDL Commitments Completed
2/2 = 100% TMDLs Completed/Scheduled
1 303d Listings addressed in 09-10
2 TMDLs scheduled for adoption in FY 09-10
1 Number of 303d listings scheduled 09-10

Region 8 [c]

43/65 = 66% Workplan TMDL Commitments Completed
0/2 = 0% TMDLs Completed/Scheduled
0 303d Listings addressed in 09-10
3 TMDLs scheduled for adoption in FY 09-10
9 Number of 303d listings scheduled 09-10

Region 9 [b]

37/54 = 68% Workplan TMDL Commitments Completed
2/5 = 40% TMDLs Completed/Scheduled
1 303d Listings addressed in 09-10
5 TMDLs scheduled for adoption in FY 09-10
8 Number of 303d listings scheduled 09-10

State Board [d]

6/11 TMDLs Approved/Submitted for approval
5/5 Timely submittals to & approvals by OAL
5/5 Timely submittals to & approvals by EPA
15/20 Workplan administrative commitments completed
16/18 #TMDLs received of # scheduled for approval in 09-10

[a] Workplan commitments Include adoption of a Klamath River site-specific objective for D.O.; and an excess sediment prohibition

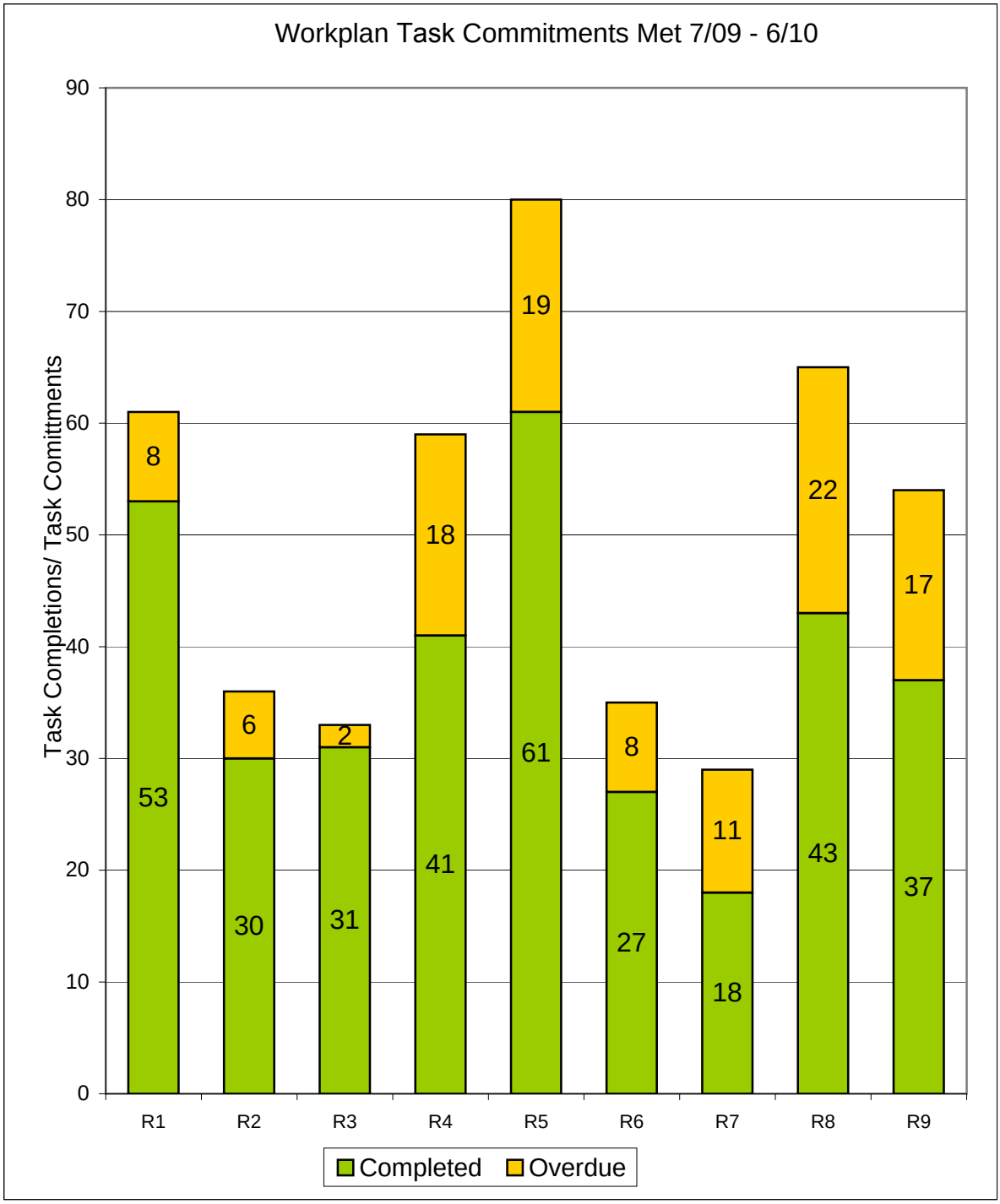
[b] Includes readoption of one TMDL each by Regions 2, 7 and 9. Listings for re-adopted TMDLs are counted in the year of the initial adoption.

[c] Includes reconsideration of TMDL appropriateness of 3 TMDLs at Region 4, and 1 TMDL at Region 8.

[d] The State Board's consideration for approval normally follows Reg. Bd. submittal of the administrative record by 5 months (to allow for public noticing & comment, and scheduling). TMDLs submitted after 1/10 will be considered for approval in FY10-11.

"TMDL Commitments Completed" is based upon data entered into TMDL Tracking Database as of the 5th of the month following the report period.

Regional Board Workplan Commitments Met - Fiscal Year 09-10



TMDL Adoption Commitments for FY 09-10

Region	TMDL	Scheduled Adoption Date	**Adopted**	# listings
1	*Klamath River* nutrients, temperature, D.O., microcystin	3/10	Yes	17
	Freshwater sediment	5/10	No	1
2	*Napa River* sediment (re-adoption)	9/09	Yes	*
3	*Salinas River* fecal coliform	2/10	No **	9
	Salinas River & Delta, and Elkhorn Slough pesticides	5/10	No	15
4	*Colorado Lagoon* pesticides, PAH's, PCB, metalts, etc. (82 & 83)	10/09	Yes	8
	McGrath Lake pesticides (25)	3/10	Yes	5
	L*os Angeles Harbor* Beaches - Beach Closures (72)	4/10	No	2
	Marina del Rey Pathogens (46)	4/10	No	2
	Santa Monica Bay Beach Closures/Coliform/Bacteria Indicators (48)	4/10	No	52
	LA River pathogens	5/10	No	17
	Machado Lake toxics	5/10	No	5
	Santa Clara River Coliform (23b & 34)	6/10	No	4
5	*Sacramento-San Joaquing Delta* methlymercury	6/10	Yes	8
	Sacramento and San Joaquin Pesticides	6/10	No	34
6	*Lake Tahoe* nutrients/sediment	1/10	No	3
7	*Coachella Valley storm channel* pathogen	11/09	Yes	*
	New River dissolved oxygen	11/09	Yes	1
8	*Newport Bay watershed* selenium	2/10	No	4
	Big Bear Lake mercury	4/10	No	1
9	Bacteria Impaired Waters I (creeks and beach shorelines) (re-adoption)	11/09	Yes	*
	Tecolote Creek indicator bacteria	11/09	Yes	1
	7th Street Channel	6/10	No	2
	Mouth of Chollas Creek	6/10	No	2
	Mouth of Switzer Creek	6/10	No	3

***** Listings counted in year of initial adoption

****** Reg. Bd. considered the TMDL and delayed adoption to allow additional public comment.

#TMDLs adopted/addressed:	9
# TMDLs Listings addressed*:	40
# TMDLs to be adopted	36
Total number of listings **to be** addressed:	196
# TMDLs not adopted/addressed:	16
% of FY 09-10 adoption commitments met:	25%

Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	Notes
1	Laguna de Santa Rosa ammonia and D.O.	2	3/95		5/95	
1	Stemple Creek nutrients and sediment	2	12/97			RB adopted and in implementation no SB approval.
1	Garcia River sediment	1	5/98, 12/98 6/01	9/00, 11/01	3/02	
1	Redwood Creek sediment [workplan]	1	11/04		12/98	RB resolution directing staff to implement EPA established TMDL
1	Eel River South Fork sediment (HA111.30)	1	11/04		12/99	RB resolution directing staff to implement EPA established TMDL
	Eel River South Fork temperature (HA111.30)	1	--		12/99	EPA established TMDL with RB assistance
1	Noyo River sediment	1	11/04		12/99	RB resolution directing staff to implement EPA established TMDL
1	Van Duzen River sediment	1	11/04		12/99	RB resolution directing staff to implement EPA established TMDL
1	Navarro River sediment	2	11/04		12/00	RB resolution directing staff to implement EPA established TMDL
1	Ten Mile sediment	1	11/04		12/00	RB resolution directing staff to implement EPA established TMDL
1	Albion River sediment	1	11/04		12/01	RB resolution directing staff to implement EPA established TMDL
1	Big River sediment	1	11/04		12/01	RB resolution directing staff to implement EPA established TMDL
1	Gualala River sediment	1	11/04		12/01	RB resolution directing staff to implement EPA established TMDL
1	Trinity River sediment	5	11/04		12/01	RB resolution directing staff to implement EPA established TMDL
1	Eel River North Fork sediment (HA111.50)	1	11/04		12/02	RB resolution directing staff to implement EPA established TMDL
	Eel River North Fork temperature (HA111.50)	1	--		12/02	EPA established TMDL with RB assistance
1	Eel River Middle Fork sediment (HA111.70)	1	11/04		12/03	RB resolution directing staff to implement EPA established TMDL
	Eel River Middle Fork temperature (HA111.70)	1	--		12/03	EPA established TMDL with RB assistance
1	Mattole sediment	1	11/04		12/03	RB resolution directing staff to implement EPA established TMDL
1	Eel River Upper Main sediment (HA111.60)	1	11/04		12/04	RB resolution directing staff to implement EPA established TMDL
	Eel River Upper Main temperature (HA111.60)	1	--		12/04	EPA established TMDL with RB assistance
1	Salmon River temperature	1	6/05		8/05	Single action TMDL: MOU with US Forest Service
1	Eel River Middle Main sediment (HA111.40)	1	--		12/05	EPA established with RB assistance, implement under R1-2004-0087
	Eel River Middle Main temperature (HA111.40)	1	--		12/05	EPA established TMDL with RB assistance
1	Scott River sediment and temperature	2	12/05	6/06	9/06	
1	Shasta River D.O. and temperature	2	6/06	11/06	1/07	
1	Eel River Lower Main sediment (HA111.10)	1	--		12/07	EPA established with RB assistance, implement under R1-2004-0087
	Eel River Lower Main temperature (HA111.10)	1	--		12/07	EPA established TMDL with RB assistance
1	Mad River sediment	2	--		12/07	EPA established with RB assistance, implement under R1-2004-0087
1	Lower Lost River (technical TMDL)	2	--		12/08	EPA established with RB assistance, implement under R1-2004-0087
1	Klamath River nutrients, temperature, D.O., microcystin	17	3/10			3 microcystin listings were added between listing cycles by EPA
	Listings Addressed	**58**				
2	San Francisco Bay copper & nickel site-specific objectives	2	5/02	10/02	1/03	SSO
2	San Francisco Bay mercury	16	9/04; 8/06	7/07	2/08	SB remanded TMDL 9/05; R2 readopted TMDL 8/06
2	Tomales Bay pathogen	2	9/05	5/06	1/07	
2	San Francisco Bay urban creeks diazinon	37	10/05	10/06	5/07	
2	Napa River pathogens	1	6/06	9/07	2/08	
2	Sonoma Creek pathogens	1	6/06	9/07	2/08	
2	Napa River sediment	1	1/07, 9/09			Withdrawn for CEQA considerations; re-adopted.
2	Walker Creek mercury	1	1/07	7/08	9/08	SB consideration extended to allow E.O. Corrections
2	San Francisco Bay PCBs	15	2/08	10/09	3/10	

Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	Notes
2	Richardson Bay pathogens	1	7/08	8/09	12/09	
2	Guadalupe River mercury	5	10/08	11/09	6/10	
2	Somoma Creek sediment	1	12/08	4/10		
	Listings Addressed	**83**				
3	Morro Bay siltation	3	5/02	9/03	1/04	
3	San Lorenzo River nitrate	4	9/02	11/01	8/03	Adopted by RB Resolution/Order
3	Las Tablas Creek - Nacimiento Reservoir mercury	2	11/02			Revisions to implementation plan needed. No responsible party due to history of recalcitrant discharger.
3	Morro Bay pathogens	10	5/03	9/03	1/04	
3	Morro Bay, Chorro & Los Osos Creeks sediment	3	5/03	9/03	1/04	
3	San Lorenzo River sediment	4	5/03	9/03	1/04	
3	Clear Creek-Hernandez Reservoir mercury	2	3/04	--	6/04	Technical TMDL Adopted by RB Resolution submitted to EPA
3	Dairy Creek dissolved oxygen	1	12/04	--		Technical TMDL Adopted by RB Resolution submitted to EPA
3	Los Osos Creek nutrients	1	12/04	--	3/05	Technical TMDL Adopted by RB Resolution submitted to EPA
3	San Luis Obispo Creek pathogen	1	12/04	5/05	9/05	
3	San Luis Obispo Creek nutrients	1	9/05	6/06	1/07	
3	Pajaro River siltation/sedimentation	4	12/05	9/06	5/07	
3	Pajaro River nutrients	2	12/05	--	10/07	Technical TMDL Adopted by RB Resolution/Order.
3	Watsonville Slough pathogens	1	3/06	9/06	3/07	Adopted by RB Order and UAA
3	Chorro Creek nutrients and dissolved oxygen	1	7/06	--	7/07	Technical TMDL Adopted by RB Resolution/Order.
3	Aptos and Valencia Creeks pathogens	2	3/08, 5/09			Withdrawn from approval process; RB adopt revised TMDL 6/09.
3	San Lorenzo River watershed pathogen	4	3/08, 5/09			Withdrawn from approval process; RB adopt revised TMDL 6/09.
3	Soquel Lagoon pathogens	1	3/08, 5/09			Withdrawn from approval process; RB adopt revised TMDL 6/09.
3	Corralitos Creek pathogens	1	3/09			
3	Pajaro River fecal coliform (including San Benito R., Llagas Cr., and Tequesquita Slough)	4	3/09	4/10		
	Listings Addressed	**52**				
4	East Fork San Gabriel River Trash	1	10/99	6/00	12/00	
4	Ballona Creek Trash	1	9/01, 3/04	2/02, 9/04	8/02	
4	Los Angeles River Trash	7	9/01	2/02	8/02	
4	Los Angeles River Watershed Lakes Trash	3	9/01			
4	Santa Monica Bay Beaches Coliform dry weather	51	1/02	9/02	6/03	Dry-Weather and Wet-Weather may be considered one TMDL. Listing did not differentiate between seasons. Only counted once in number
4	Calleguas Creek Chloride	6	--	--	3/02	Technical TMDL drafted by RB, established by EPA
4	Santa Monica Bay Beaches Wet Weather Bacteria	51	12/02	3/03	6/03	see note above
4	Calleguas Creek Nitrogen	30	10/02	3/03	6/03	
4	Santa Clara River Chloride Reach 3	1	10/02,	--	6/03	Remanded by SB, Objective change BPA 11/03; EPA established with Reg. Bd. Assistance
4	Malibu Creek nutrients	28	--	--	3/03	EPA established with RB technical assistance
4	Santa Clara River Chloride Reach 7 & 8	2	10/03, 5/04, 8/06	7/04, 5/07	4/05,	Remanded by SB, Revised approved by SB 7/04; 8/06 revised implementation plan only, EPA approval not needed.
4	Los Angeles River Nitrogen	33	7/03, 12/03	11/03, 3/04	3/04	

Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	Notes
4	Santa Clara River Nitrogen	6	7/03	11/03	3/04	
4	Marina del Rey Pathogens	3	8/03	11/03	3/04	
4	McGrath Beach Coliform	1	8/03	--	--	CAO
4	Los Angeles Harbor Beach Closures	2	7/04	10/04	3/05	
4	Malibu Creek Pathogens	12	12/04	9/05	1/06	
4	Los Angeles River Metals/Toxics	18	6/05	10/05	12/05	
4	Ballona Creek Metals	9	7/05	10/05	12/05	
4	Ballona Creek Toxics	11	7/05	10/05	12/05	
4	Calleguas Creek Historic pesticides	62	7/05	9/05	3/06	
4	Calleguas Creek Toxicity	10	7/05	9/05	3/06	
4	Calleguas Creek PCBs	5	7/05	9/05	3/06	
4	Marina del Rey Toxics	6	10/05	1/06	3/06	
4	Marina del Rey Harbor-Back Basin Metals (AU #56)	3	10/05	1/06	3/06	
4	Ballona Creek coliform	4	6/06	11/06	3/07	
4	Calleguas Creek metals	6	6/06	10/06	3/07	
4	San Gabriel River metals	7	7/06	--	3/07	Withdrawn by Region; EPA established with Reg. Bd. Assistance
4	Calleguas Creek trash	2	6/07	12/07	2/08	
4	Legg Lake trash	1	6/07	12/07	2/08	
4	Machado Lake trash	1	6/07	12/07	2/08	
4	Santa Clara River trash	3	6/07	12/07	2/08	
4	Ventura River Estuary trash	1	6/07	12/07	2/08	
4	Los Angeles River trash (re-adoption)	7	8/07	4/08	7/08	Re-adoption in compliance with Court decision
4	Los Angeles River metals (re-adoption)	13	9/07	6/08	10/08	Re-adoption in compliance with Court decision
4	Ballona Creek metals (re-adoption)	9	9/07	6/08	10/08	Re-adoption in compliance with Court decision
4	Calleguas Creek boron/sulfate/TDS	31	10/07	5/08	12/08	
4	Harbor Beaches of Ventura County	2	10/07	10/08	12/08	
4	Malibu Creek Watershed trash	7	5/08	3/09	6/09	
4	Machado Lake nitrogen	4	5/08	12/08	3/09	
4	Calleguas Creek Nitrogen Compounds and Related Effects	27	9/08	6/09	10/09	
4	Santa Clara River reconsideration of chloride water quality objectives	2	12/08	10/09	4/10	
4	Colorado Lagoon pesticides, PAH's, PCB's, metals, etc.	8	10/09			
4	McGrath Lake Pesticides	5	10/09			
4	Los Cerritos Metals	3	--	--	3/10	EPA established with RB technical assistance
	Listings Addressed	425				
5	Grasslands Marsh Selenium	1	96	1996	5/00	Implemented using 96 BPA
5	Salt Slough Selenium	1	96	1996	1999	Implemented using 96 BPA
5	San Joaquin River Selenium	1	96	1996	3/02	Implemented using 96 BPA
5	Sacramento River Cadmium, Copper & Zinc	3	5/02			Implemented using existing programs
5	Clear Lake Mercury	1	12/02	5/03	9/03, 10/03	
5	Sacramento and Feather River Diazinon	2	10/03	4/04	8/04	
5	Sacramento Area Urban Creeks diazinon	10	9/04	--	11/04	Adopted by Resolution. Implemented via MS4 permit
5	San Joaquin River Salt and Boron	2	9/04	11/05	2/07	TMDL is complete for the Stanislaus to Vernalis reach only.

Adopted TMDLs

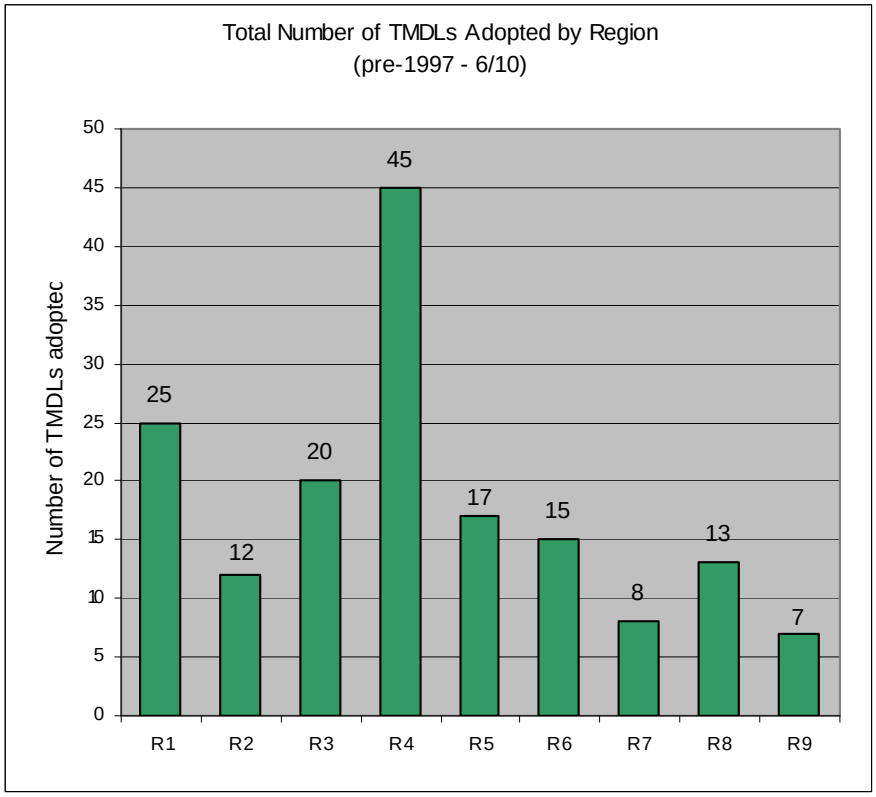
Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	Notes
5	San Joaquin River Disolved Oxygen	1	1/05	11/05	2/07	
5	San Joaquin River Diazinon and Chlorpyrifos	8	10/05	5/06	12/06	
5	Cache, Bear and Sulphur Creeks Mercury	4	10/05	7/06	2/07	
5	Clear Lake nutrient	1	6/06	4/07	9/07	
5	Delta Diazinon and Chlorpyrifos	22	6/06	5/07	10/07	
5	Sulpher Creek mercury	2	3/07	3/08		
5	Sacramento/Feather diazinon & chlorpyrifos	2	5/07	2/08	8/08	
5	Stockton Area Sloughs and Rivers pathogens	8	3/08	--	5/08	TMDL adopted as a MS4 permit
5	Sacramento-San Joaquing Delta methlymercury	8	4/10			
	Listings Addressed	**77**				
6	Wendel Hot Springs metals	1	7/00	9/01	4/02	UAA (resulting in delisting in 2002)
6	Amedee Hot Springs metals	1	7/00	9/01	4/02	UAA (resulting in delisting in 2002)
6	Fale Hot Springs metals	1	7/00	9/01	4/02	UAA (resulting in delisting in 2002)
6	Hot Creek (Walker River watershed) metals	1	7/00	9/01	4/02	UAA (resulting in delisting in 2002)
6	Little Hot Creek (Owens River watershed) arsenic	1	7/00	9/01	4/02	UAA (resulting in delisting in 2002)
6	Little Alkali Lake arsenic	1	7/00	9/01	4/02	UAA (resulting in delisting in 2002)
6	Keough Hot Springs metals	1	7/00	9/01	4/02	UAA (resulting in delisting in 2002)
6	Deep Springs Lake salinity/TDS/chlorides	1	7/00	9/01	4/02	UAA (resulting in delisting in 2002)
6	Amargosa River salinity/TDS/chlorides	1	7/00	9/01	4/02	UAA (resulting in delisting in 2002)
6	Heavenly Valley sediment	1	1/01	9/01	9/02	
6	Indian Creek Reservoir phosphorus	1	7/02	1/03	7/03	
6	Squaw Creek sediment	1	4/06	2/07	7/07	
6	West Fork Carson River sodium objectives	2	12/06	9/07	9/08	Site-specific objective for two segments of the West Fork.
6	Blackwood Creek sediment	1	10/07	--	7/08	Adopted by RB Resolution/Order submitted directly to EPA
6	Truckee River, and Bronco and Gray Creeks Sediment	3	5/08	3/09	9/09	
	Listings Addressed	**18**				
7	Alamo River Sediment	1	6/01	2/02	6/02	
7	New River Pathogen	1	10/01	3/02	8/02	
7	New River Sediment	1	6/02	11/02	3/03	
7	Imperial Valley Drains (Niland 2, P, Pumice) Sediment	1	1/05	7/05	9/05	
7	New River trash	1	6/06	4/07	9/07	
7	Coachella Valley Storm Channel pathogen TMDL	1	5/07, 6/10			Withdrawn by Region
7	New River volatile organic compounds (delisting)	7	1/09	--	--	RB adopted Resolution Delisting waterbody for VOCs
7	New River dissolved oxygen	1	5/10			
	Listings Addressed	**14**				
8	Santa Ana River Reach 3 Nutrients	1	11/91			
8	Newport Bay & San Diego Creek Nitrogen	4	10/98	11/98	4/99	
8	Newport Bay & San Diego Creek Phosphorus	4	10/98	11/98	4/99	
8	Newport Bay & San Diego Creek Sediment	3	10/98	11/98	4/99	
8	Newport Bay & San Diego Creek Fecal Coliform	2	4/99	7/99	2/00	

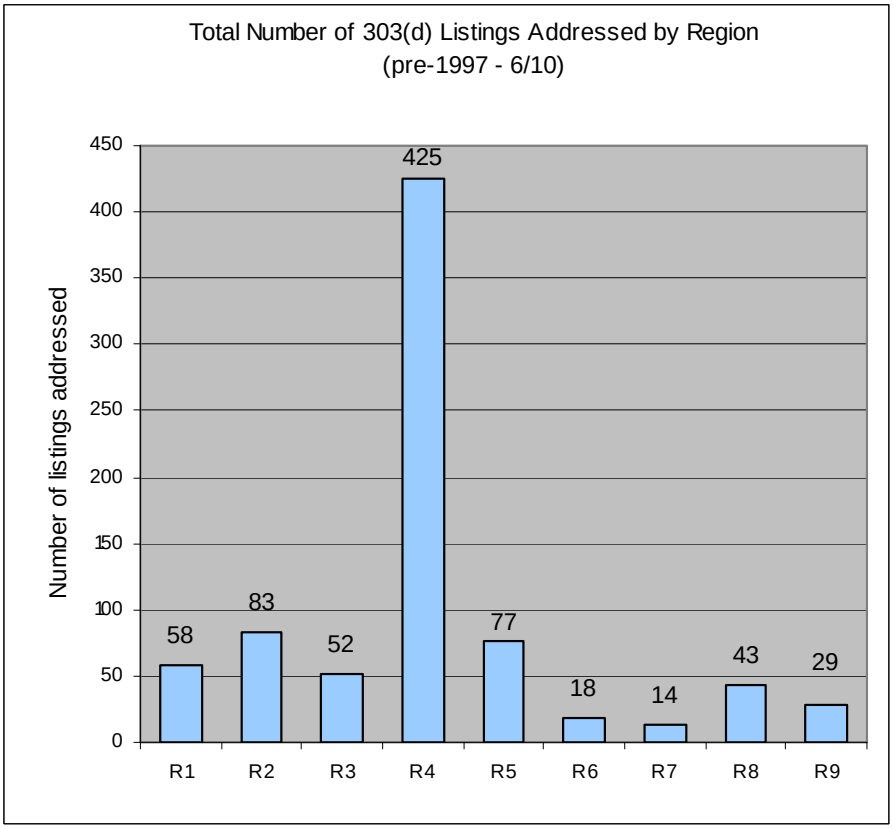
Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	Notes
8	Newport Bay Watershed Chlorpyrifos	4	4/03	10/03	2/04	
8	Newport Bay Watershed Diazinon	4	4/03	10/03	2/04	
8	Lake Elsinore Watershed Nutrient TMDL	3	12/04	5/05	9/05	
8	Middle Santa Ana R. (Prado area streams) pathogen	6	8/05	5/06	5/07	
8	Knickerbocker Creek Bacteria	1	11/05			Reg. Bd. addressed through enforcement action
8	Big Bear watershed nutrient	2	4/06	4/07	9/07	
8	Newport Bay Watershed Organochlorine Compounds	4	9/07			
8	Big Bear Lake Watershed metals (delisting)	5	4/09	--	--	Delisting
	Listings Addressed	**43**				
9	Chollas Creek Diazinon	1	6/02	7/03	11/03	
9	Rainbow Creek nutrient	2	12/04	11/05	3/06	
9	Shelter Island Yacht Basin Dissolved Copper	1	2/05	11/05	3/06	
9	Chollas Creek Metals	3	6/05, 6/07	7/08	12/08	State Board remanded for CEQA on 5/2/06, Re-adopted by Region
9	Bacteria impaired waters I (creeks and beach shorelines)	19	12/07, 2/10			Withdrawn, Reg. Bd. re-considered
9	San Diego Bay & Dana Point Harbor shorelines bacteria	2	6/08	6/09	10/09	
9	Tecolote Creek bacteria	1	2/10			
	Listings Addressed	**29**				
	Total Number of Listings Addressed Statewide	**799**				

TMDL Adoptions =	162
Listings Address by TMDL Adoption =	799
Listings Addressed by 2006 Delisting =	188
TOTAL Listings Addressed =	**987**
Percentage of Listings Addressed =	**44%**
Listings Addressed by 2002 Delisting =	206
Total of All LIstings Addressed =	1193

Cumulative Number of TMDLs Adopted and Listings Addressed by Region





TMDLs Scheduled for State Board Approval in FY 09-10

RB	Title	Sched. [1] RB Adoption	RB Adopt	SB Rec'd Admin. Record	SB Action	Notes
2	San Francisco Bay PCBs		2/13/08	10/6/08	10/20/09	
2	Richardson Bay Pathogens		7/9/08	10/28/08	8/4/09	
2	Guadalupe River Watershed Mercury		10/8/08	2/4/09	11/17/09	
2	Napa River Sediment		9/9/09	1/19/10	tent. FY 10-11	
2	Sonoma Creek sediment		12/10/08	2/23/09	4/20/10	
3	Pajaro River fecal coliform		3/20/09	6/9/09	4/20/10	
3	Aptos and Valencia Creeks pathogens		5/8/09	8/24/09	tent. ~~April~~ Aug. 2010	Dependent on Pajaro being approved first.
3	San Lorenzo River watershed pathogen		5/8/09	8/24/09	tent. ~~April~~ Oct. 2010	Dependent on Pajaro being approved first.
3	Soquel Lagoon pathogens		5/8/09	8/24/09	7/6/10	Dependent on Pajaro being approved first.
3	Corralitos and Salisipuedes Creeks Fecal Coliform		3/20/09	12/3/09	tent. April Oct. 2010	
4	Upper Santa Clara River Chloride reconsideration		12/11/08	2/27/09	10/20/09	
4	Colorado Lagoon Pesticides, PAH's, PCB, Metals etc TMDL (82 & 83)		10/1/09	3/2/10	tent. fall 2010	
4	McGrath Lake Pesticides (25)		10/1/09	12/31/09	tent. ~~May~~ Sept. 2010	
7	New River Dissolved Oxygen	11/09	5/10			
7	Coachella Valley Storm Channel pathogen	11/09	6/10			
8	Newport Bay watershed organochlorine compounds		9/7/07	7/20/09	~~tent. Feb. July~~	Withdrawn by Regional Board.
9	Bacteria impaired waters I (creeks and beach shorelines)	11/09	2/10	3/2/10	tent. July	
9	Tecolote Creek indicator bacteria	11/09	2/10	3/2/10	tent. July	

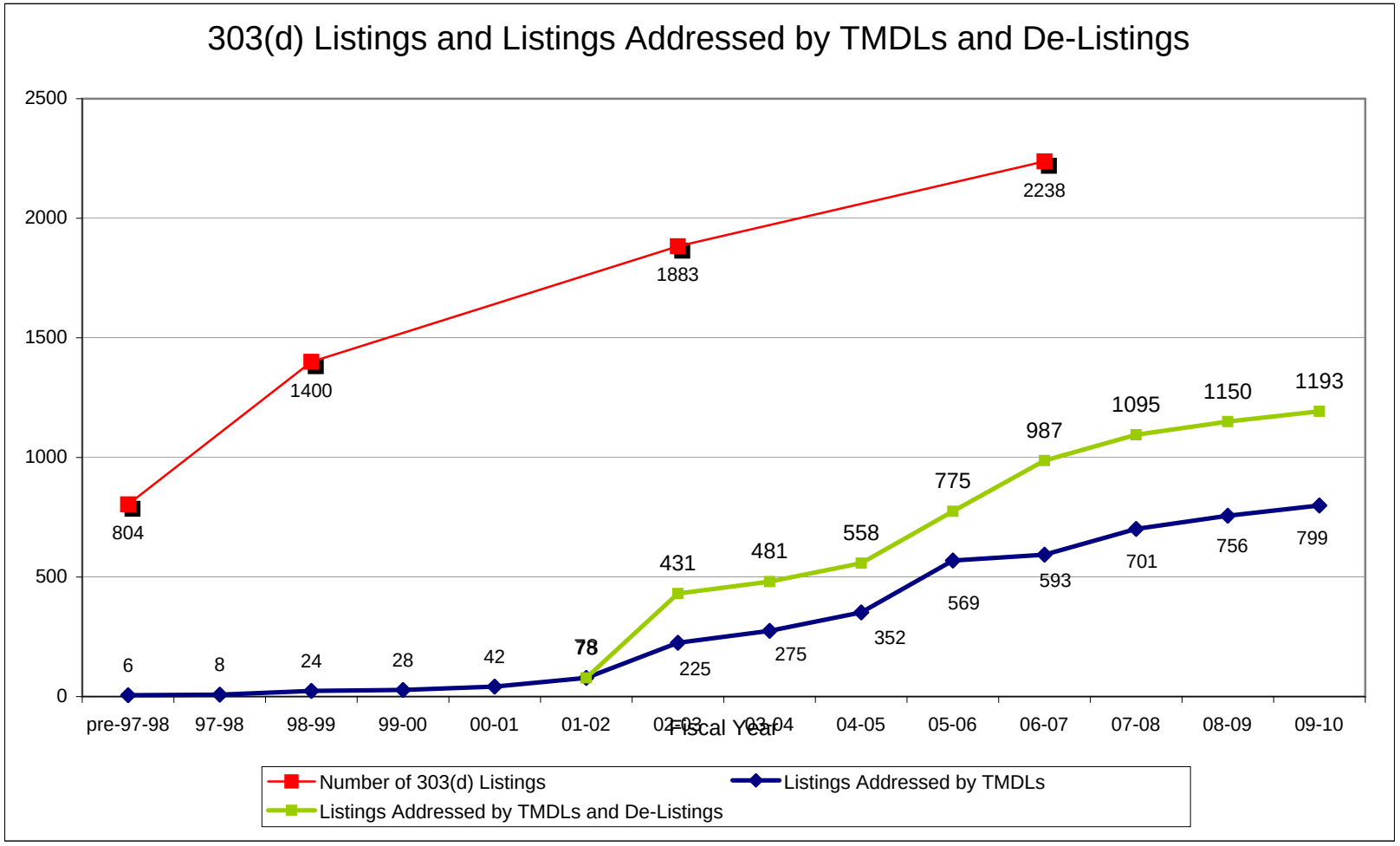
Notes:

1. State Board must receive the complete Administrative Record by January in order to consider the TMDL for approval in the same fiscal year.

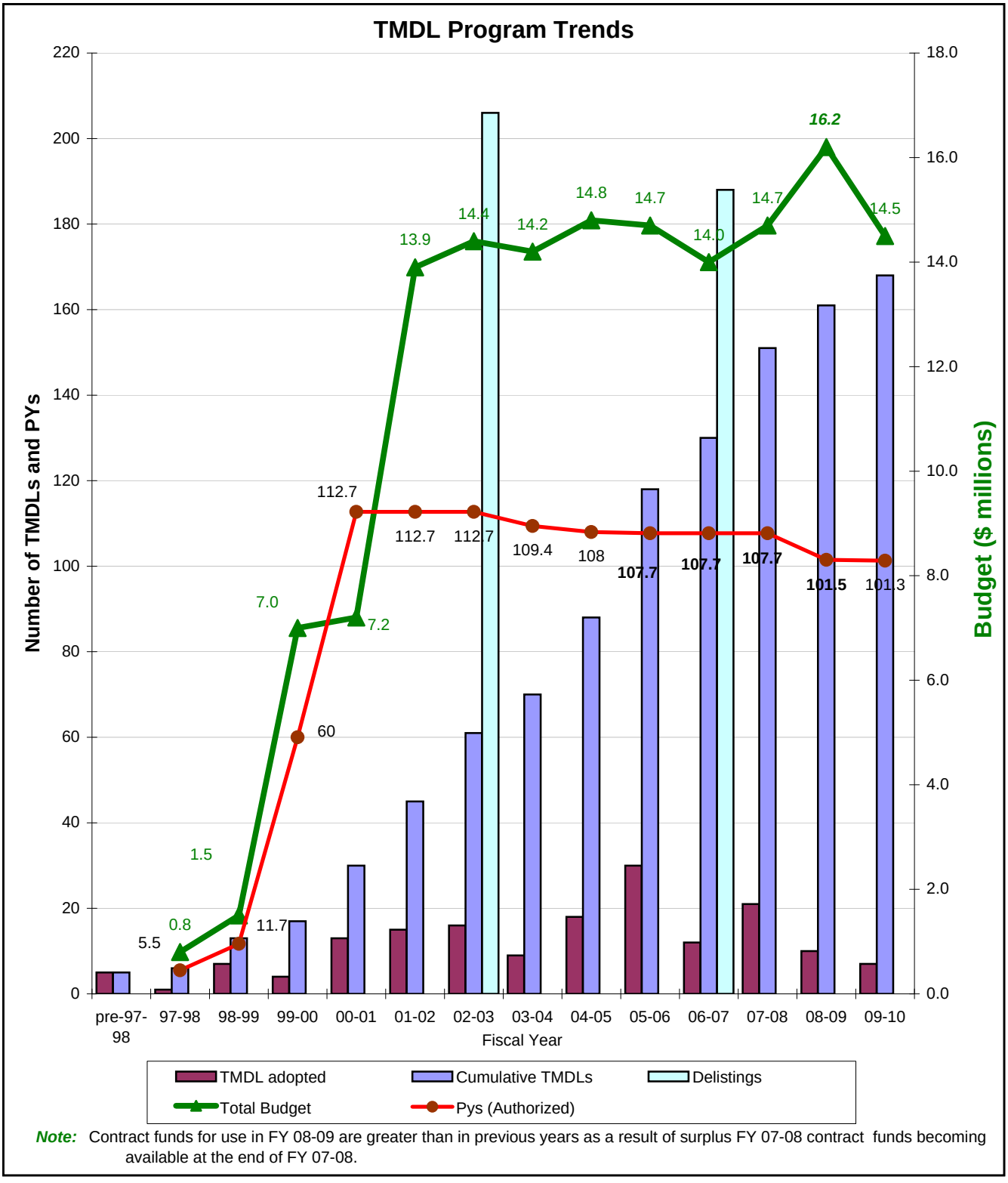
Actions by the State Water Board

TMDLs Actions by the State Board in FY 09-10 (July 2009 - June 2010)		
	State Board Action	**Date**
Region 2		
Richardson Bay Pathogens	Approved	8/4/09
San Francisco Bay PCBs	Approved	10/20/09
Guadalupe River Mercury water quality objective and TMDL	Approved	11/17/09
Sonoma Creek sediment	Approved	4/20/10
Region 3		
Pajaro River fecal coliform	Approved	4/20/10
Region 4		
Upper Santa Clara River Chloride SSO and TMDL reconsideration	Approved	10/20/09
Number of State Bd. Approvals	6	
Number of State Bd. Remands	0	

Decreasing the Gap:
The Difference Between Number of Listings and Listings Addressed

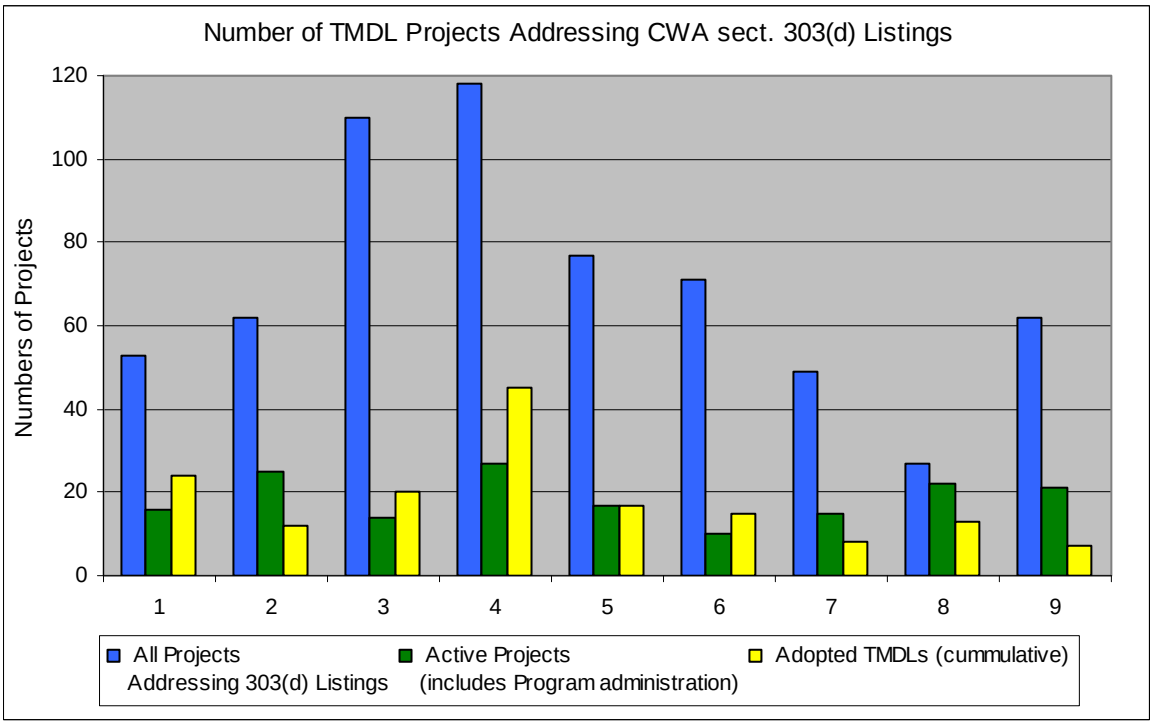


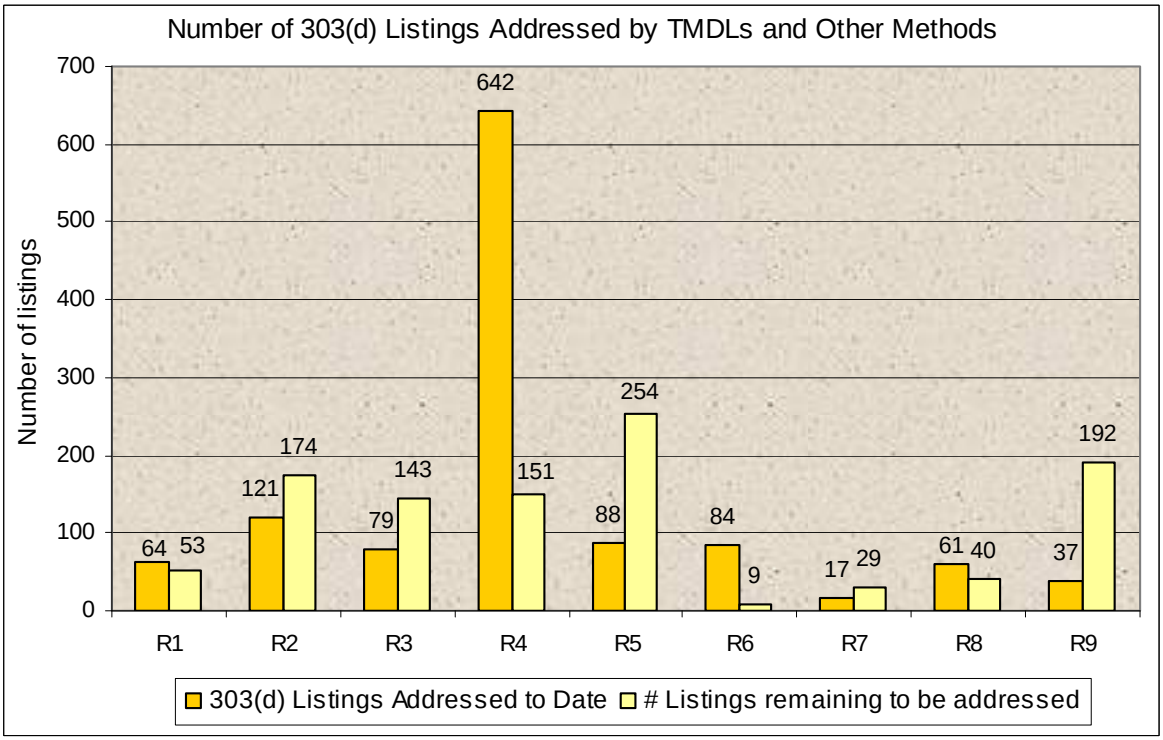
State-wide TMDL Program Trends

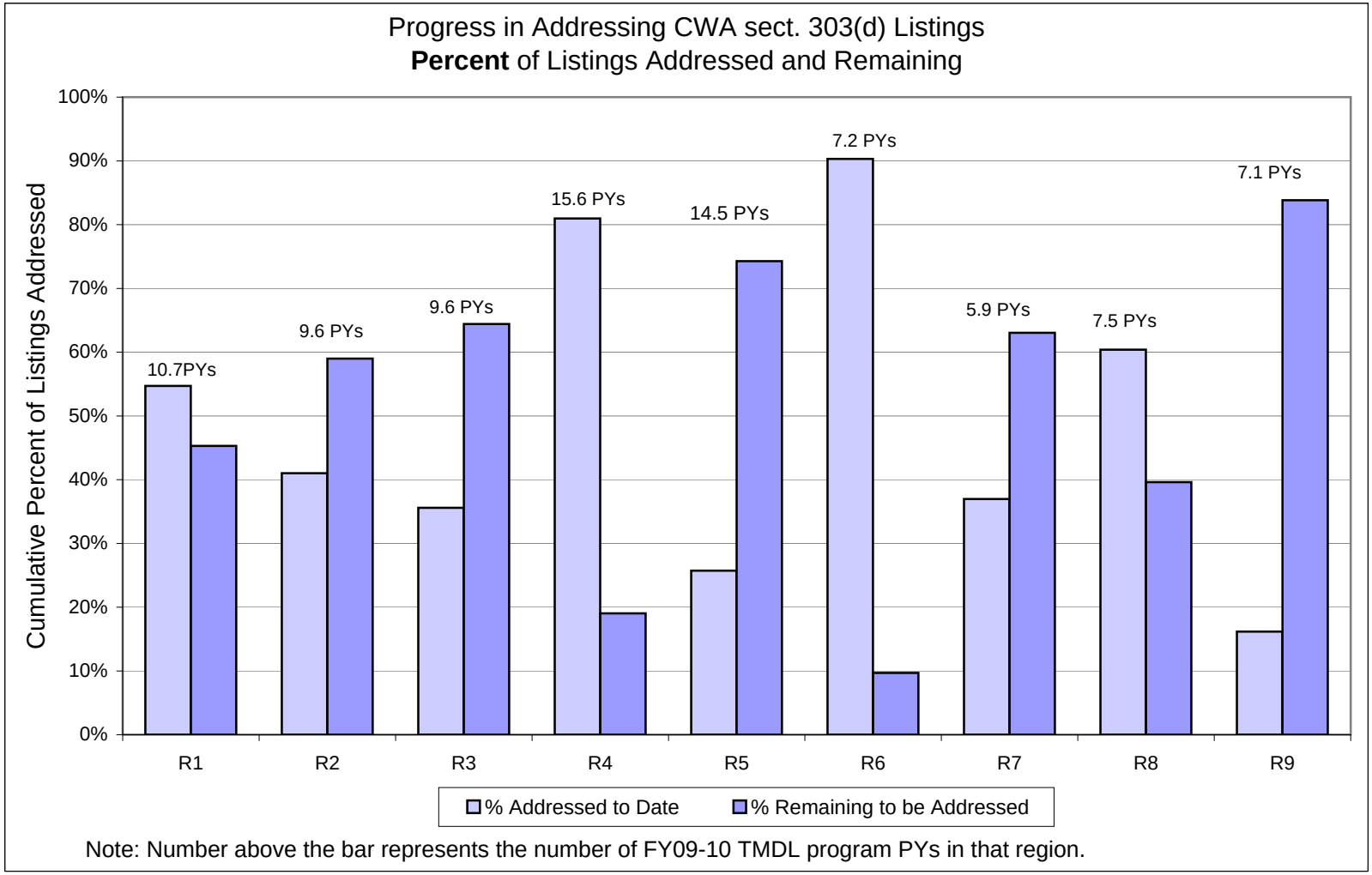


Note: Contract funds for use in FY 08-09 are greater than in previous years as a result of surplus FY 07-08 contract funds becoming available at the end of FY 07-08.

Progress in Addressing 2006 CWA Sect. 303(d) Listings

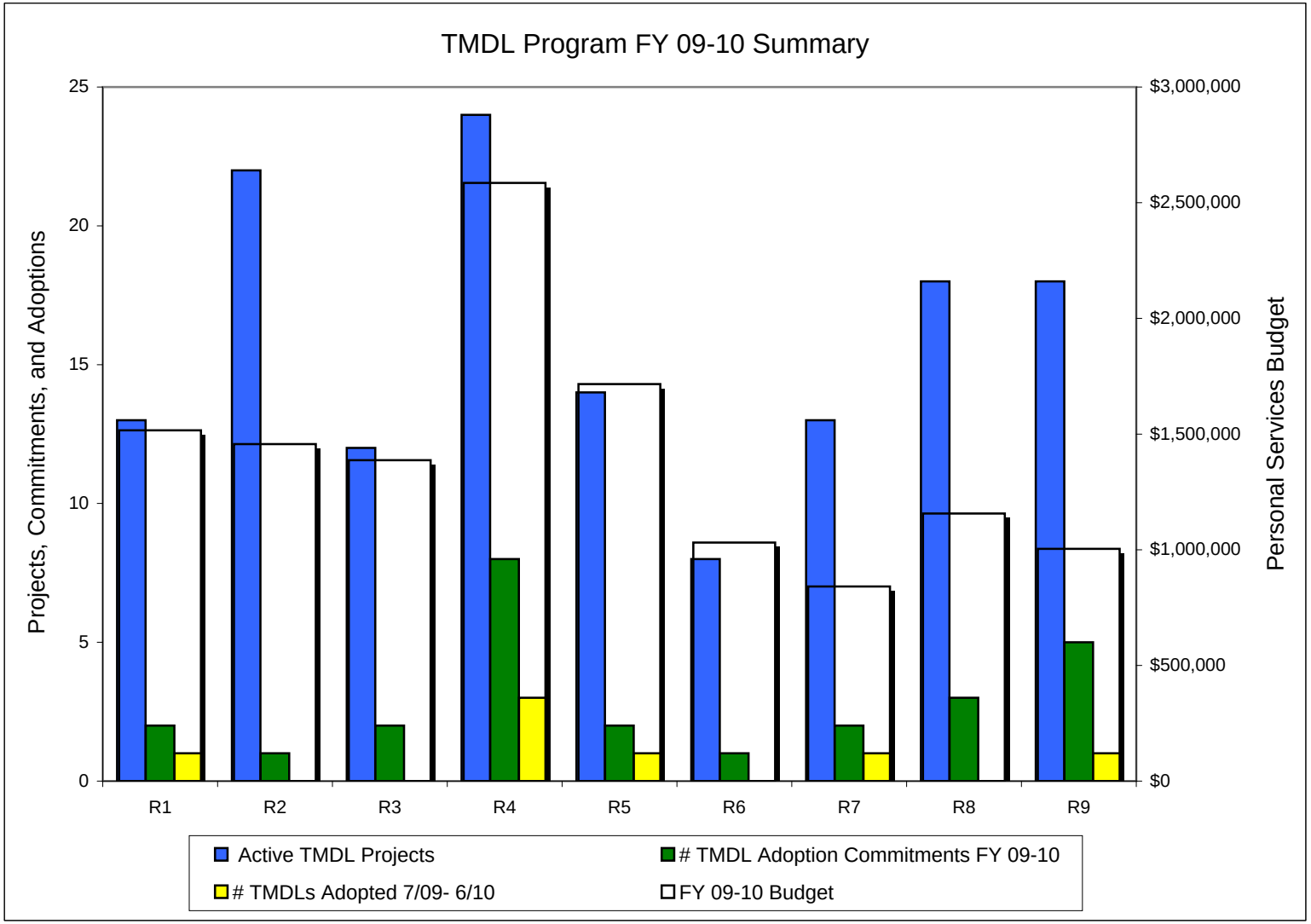




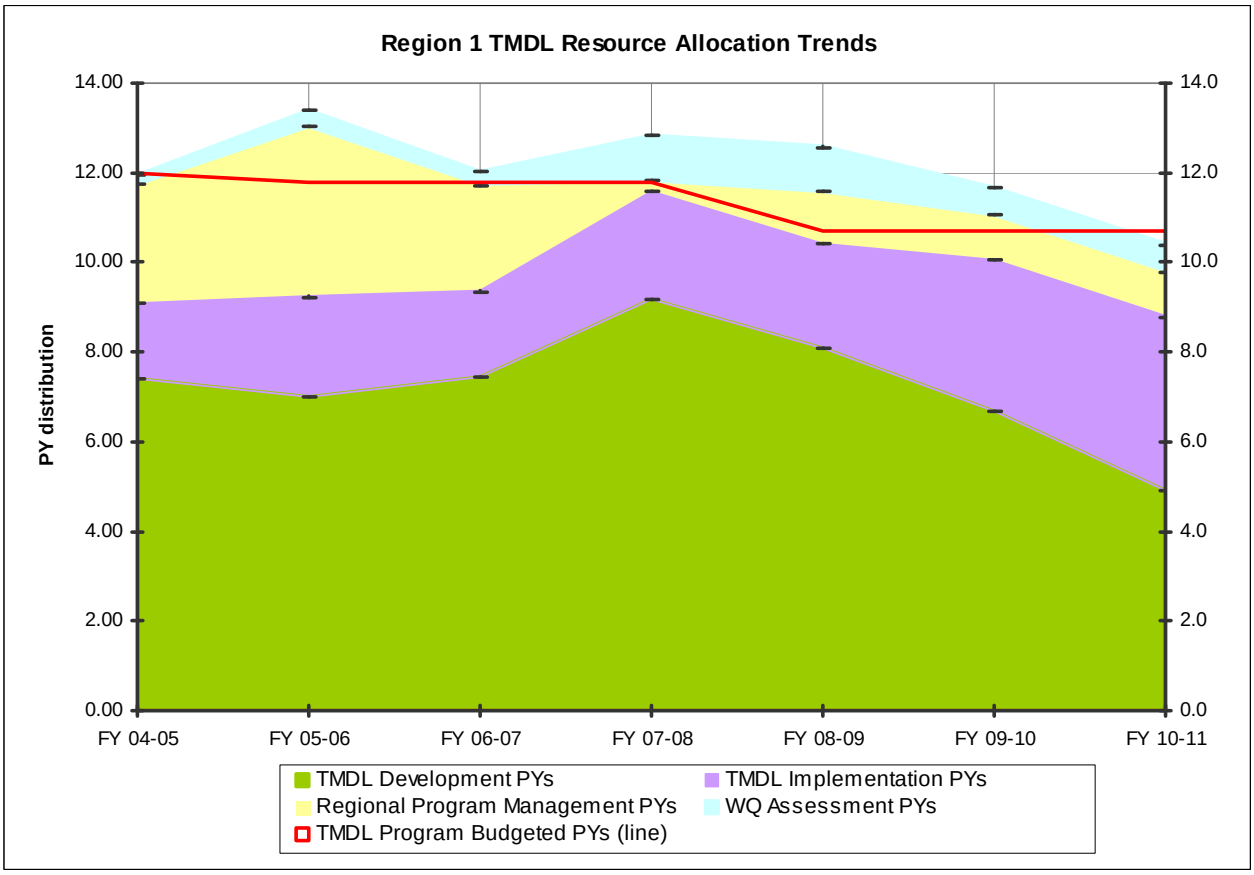


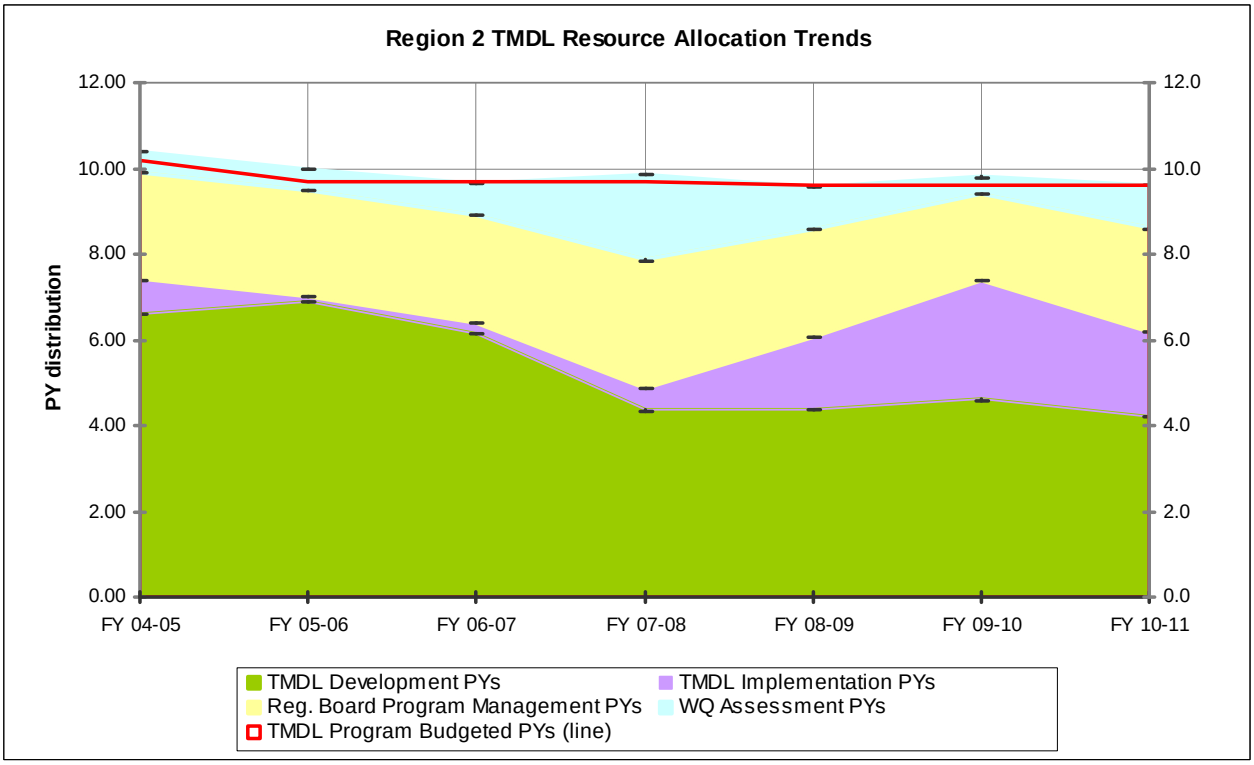
Note: Number above the bar represents the number of FY09-10 TMDL program PYs in that region.

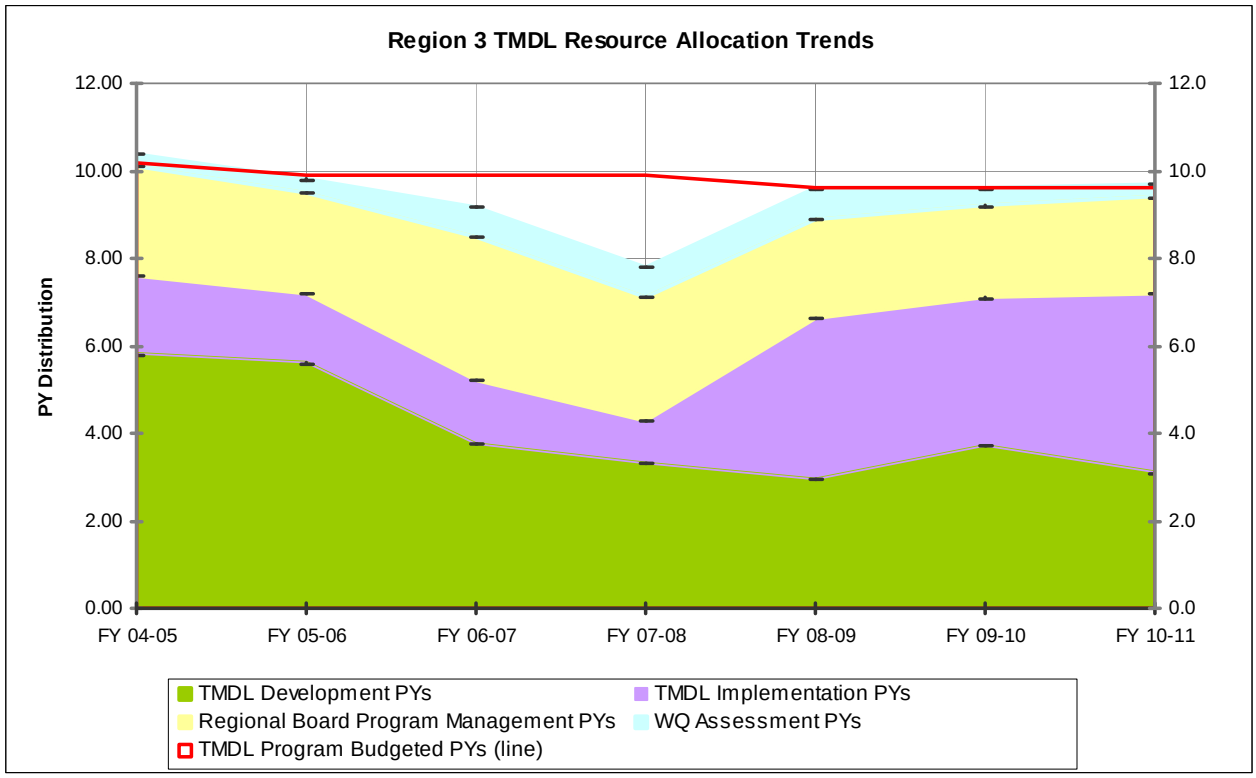
FY 09-10 TMDL Program Summary By Region

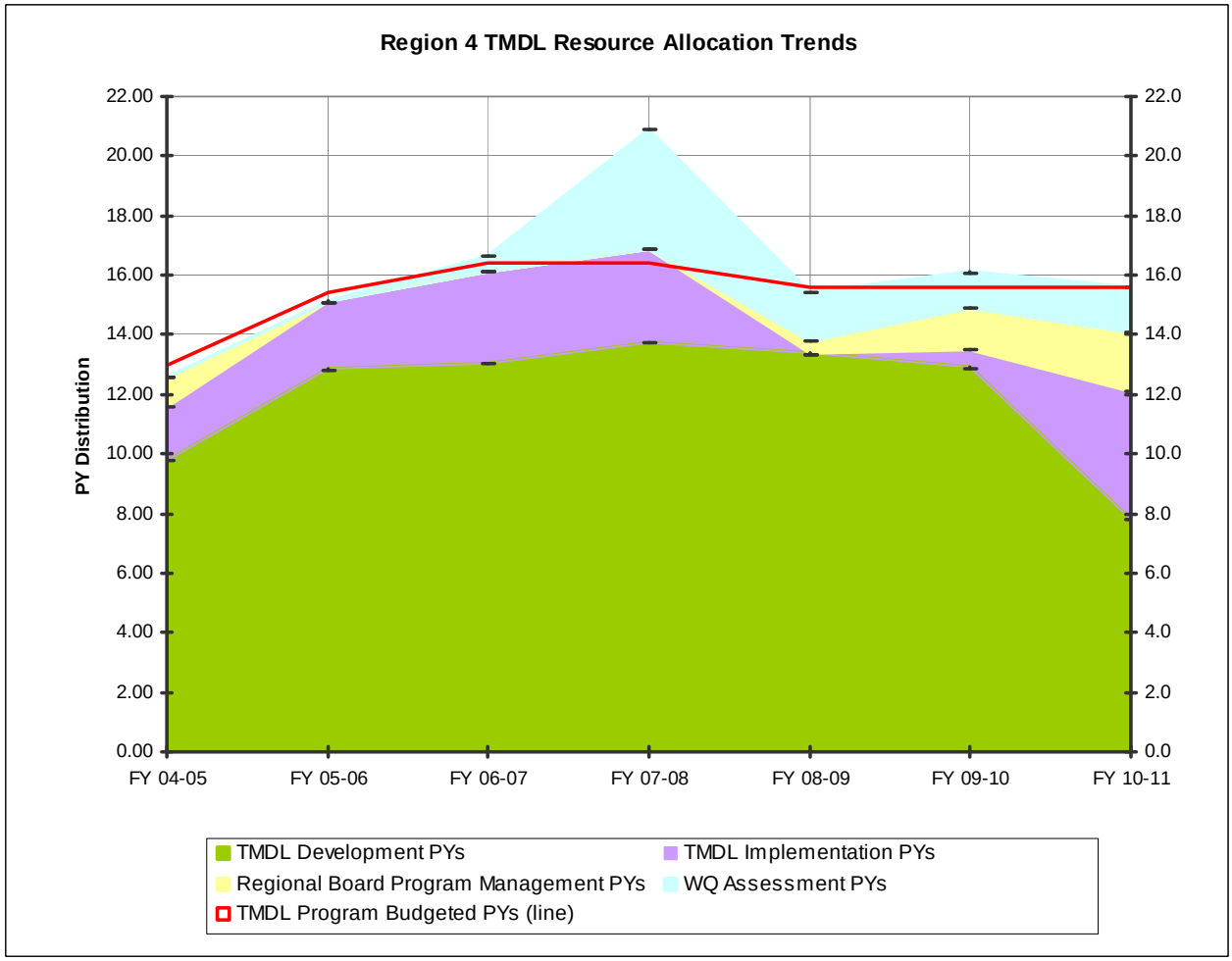


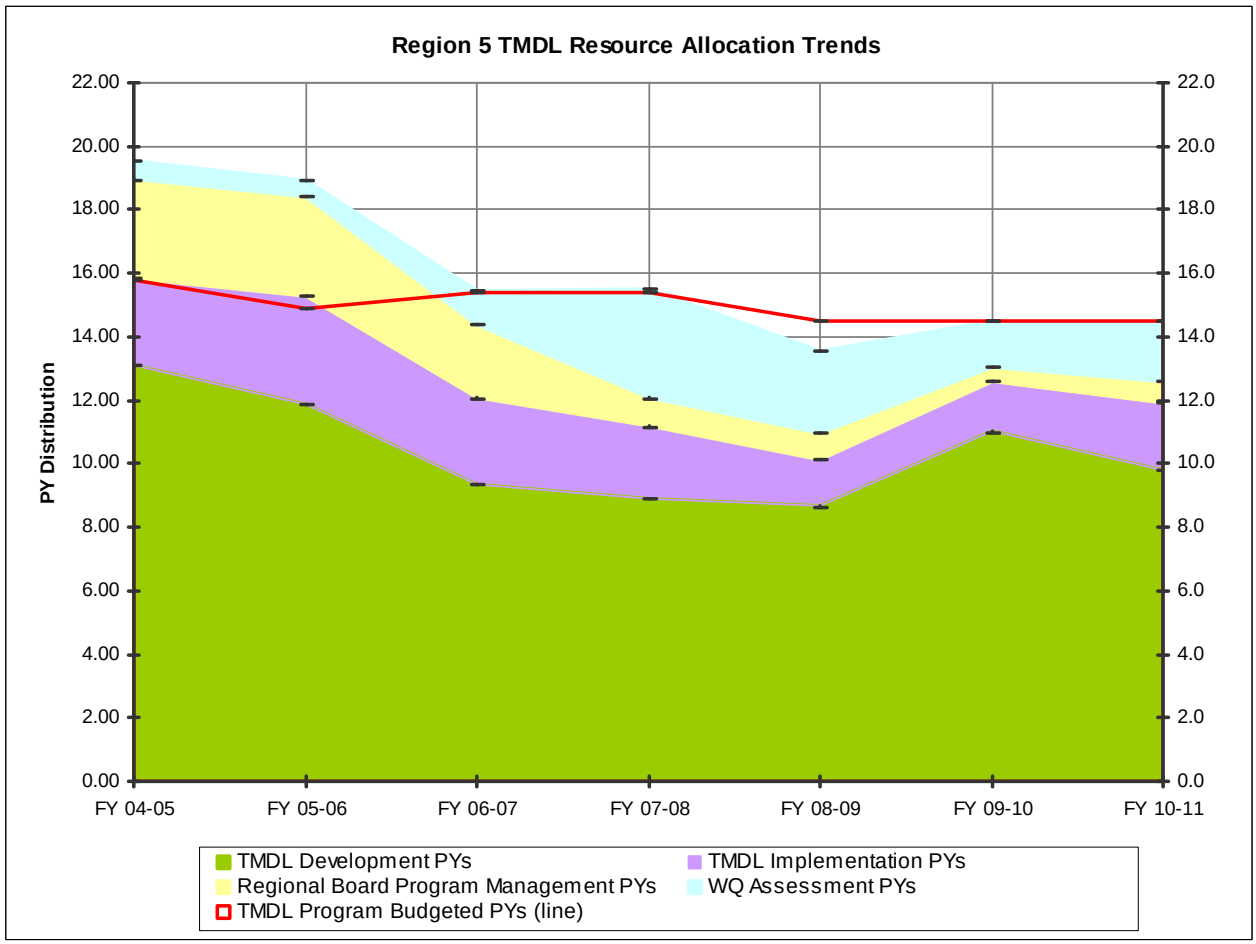
Resource Allocation at the Regional Water Boards: July 2004 – June 2010

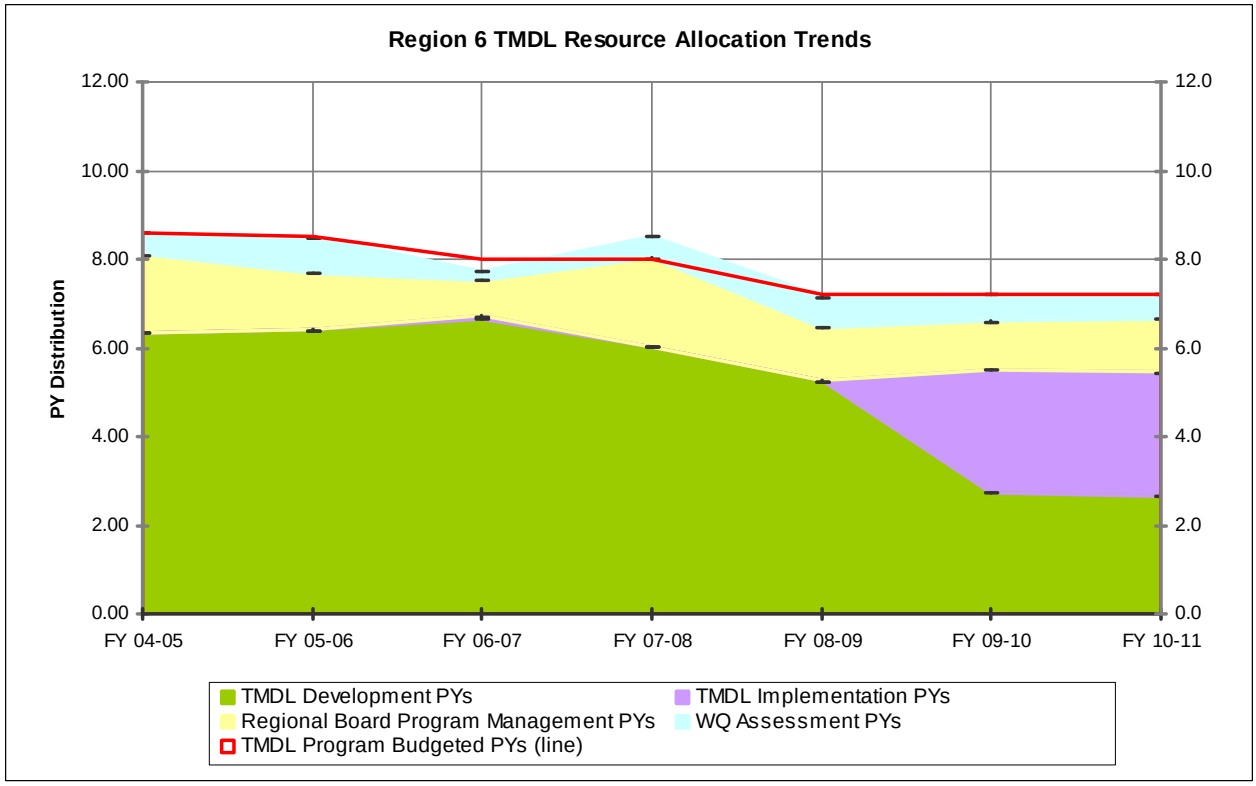


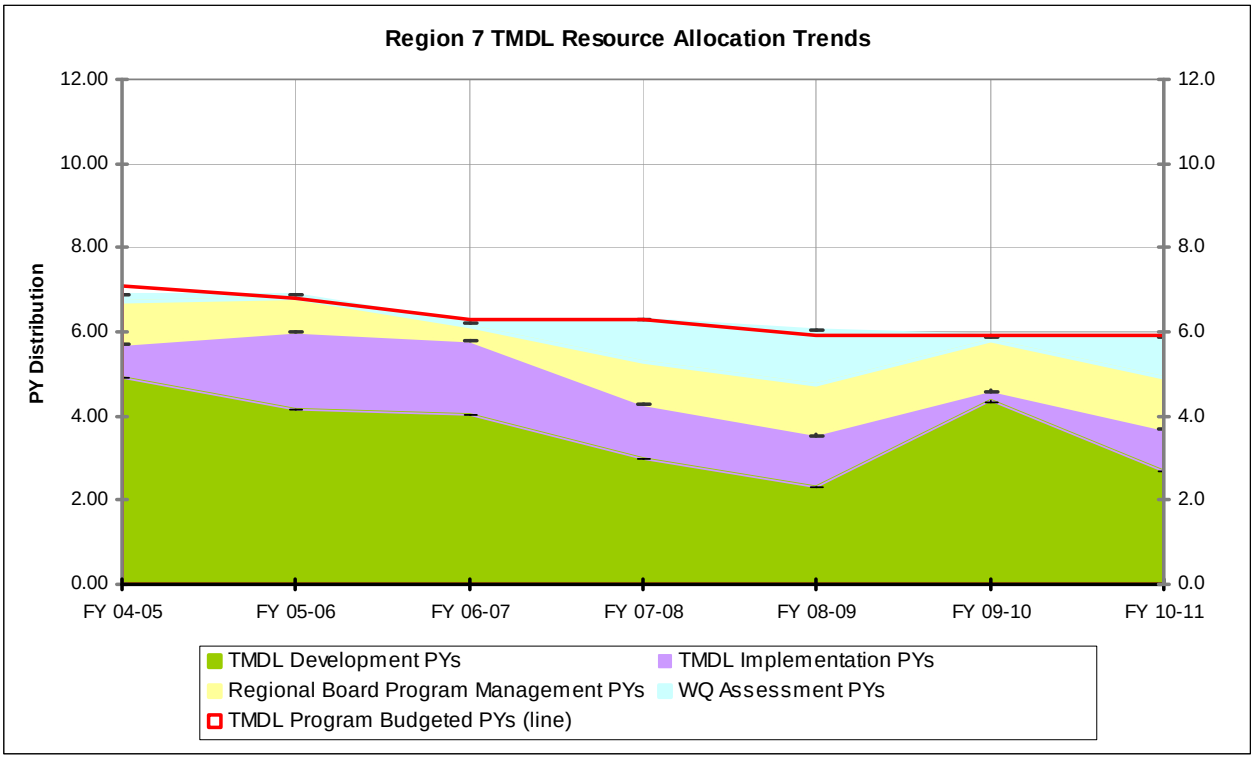


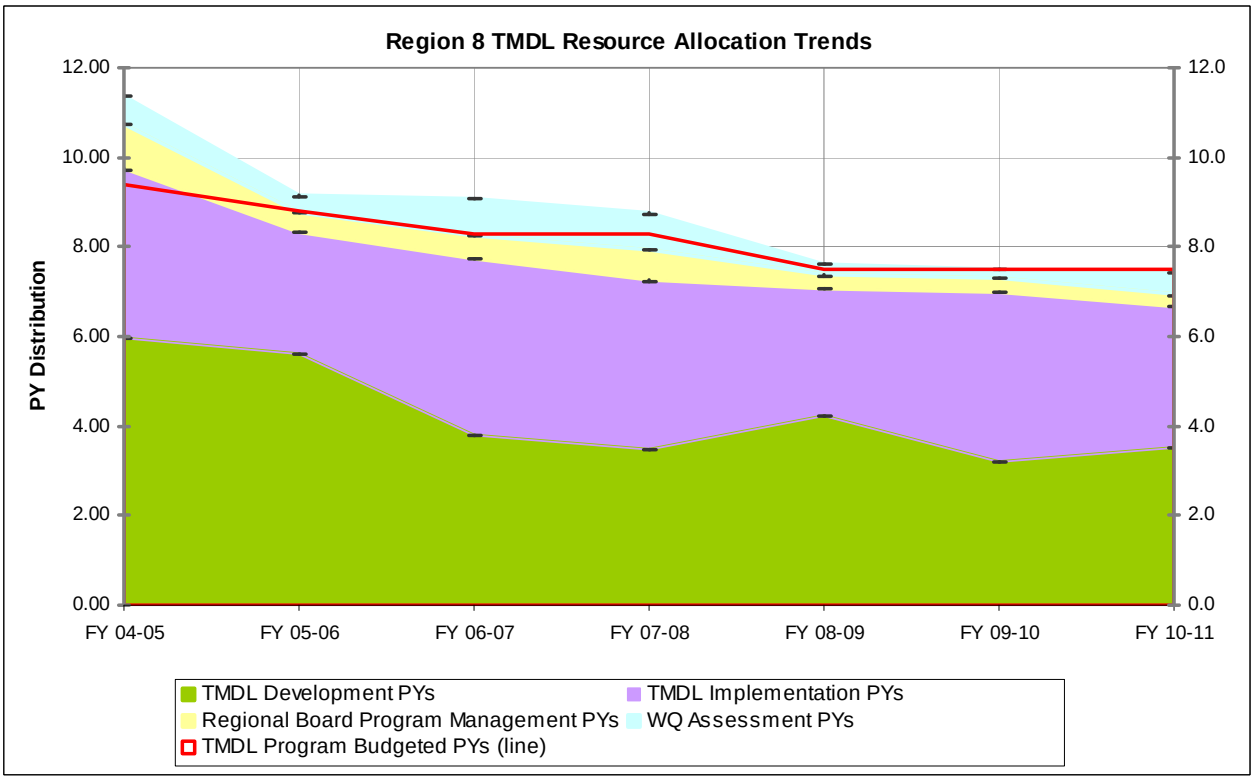

Region 3 TMDL Resource Allocation Trends
PY Distribution
12.00
10.00
8.00
6.00
4.00
2.00
0.00
12.0
10.0
8.0
6.0
4.0
2.0
0.0
FY 04-05
FY 05-06
FY 06-07
FY 07-08
FY 08-09
FY 09-10
FY 10-11
TMDL Development PYs
TMDL Implementation PYs
Regional Board Program Management PYs
WQ Assessment PYs
TMDL Program Budgeted PYs (line)

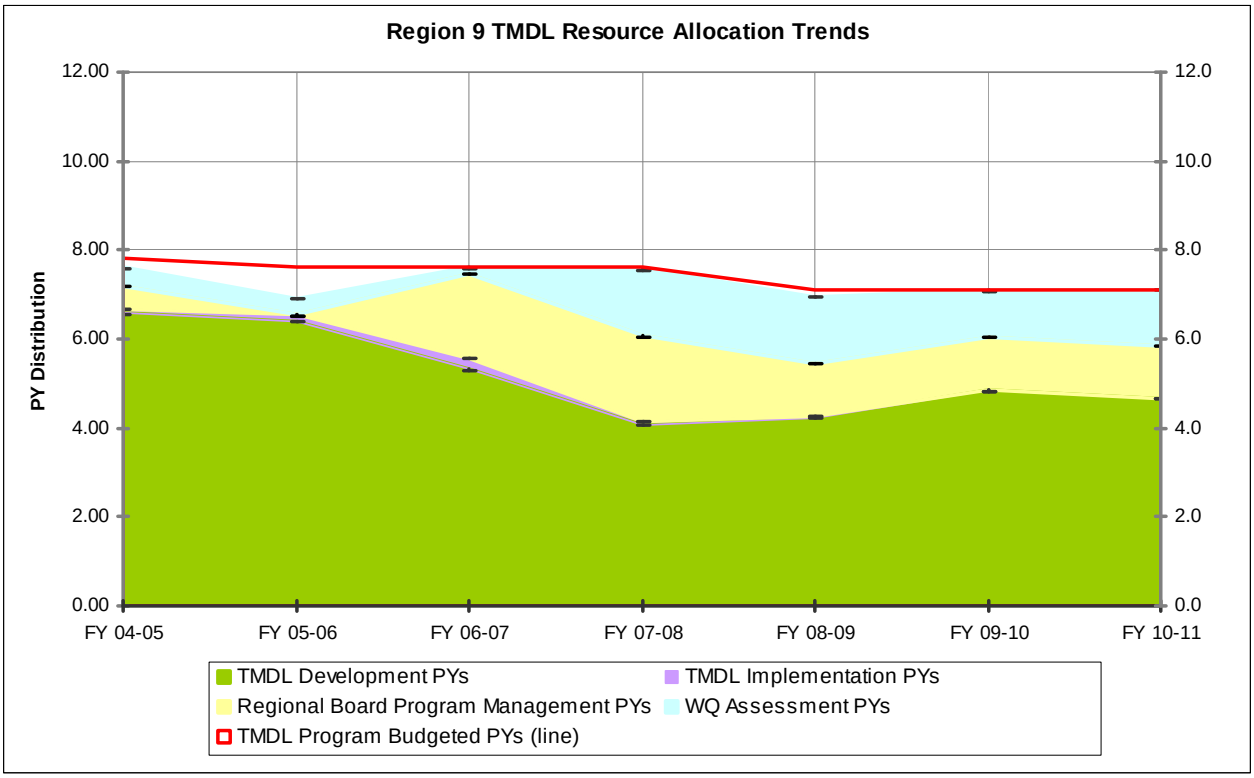

Region 4 TMDL Resource Allocation Trends
PY Distribution
22.00
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
22.0
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
FY 04-05
FY 05-06
FY 06-07
FY 07-08
FY 08-09
FY 09-10
FY 10-11
TMDL Development PYs
TMDL Implementation PYs
Regional Board Program Management PYs
WQ Assessment PYs
TMDL Program Budgeted PYs (line)


Region 5 TMDL Resource Allocation Trends
PY Distribution
22.00
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
FY 04-05
FY 05-06
FY 06-07
FY 07-08
FY 08-09
FY 09-10
FY 10-11
TMDL Development PYs
TMDL Implementation PYs
Regional Board Program Management PYs
WQ Assessment PYs
TMDL Program Budgeted PYs (line)

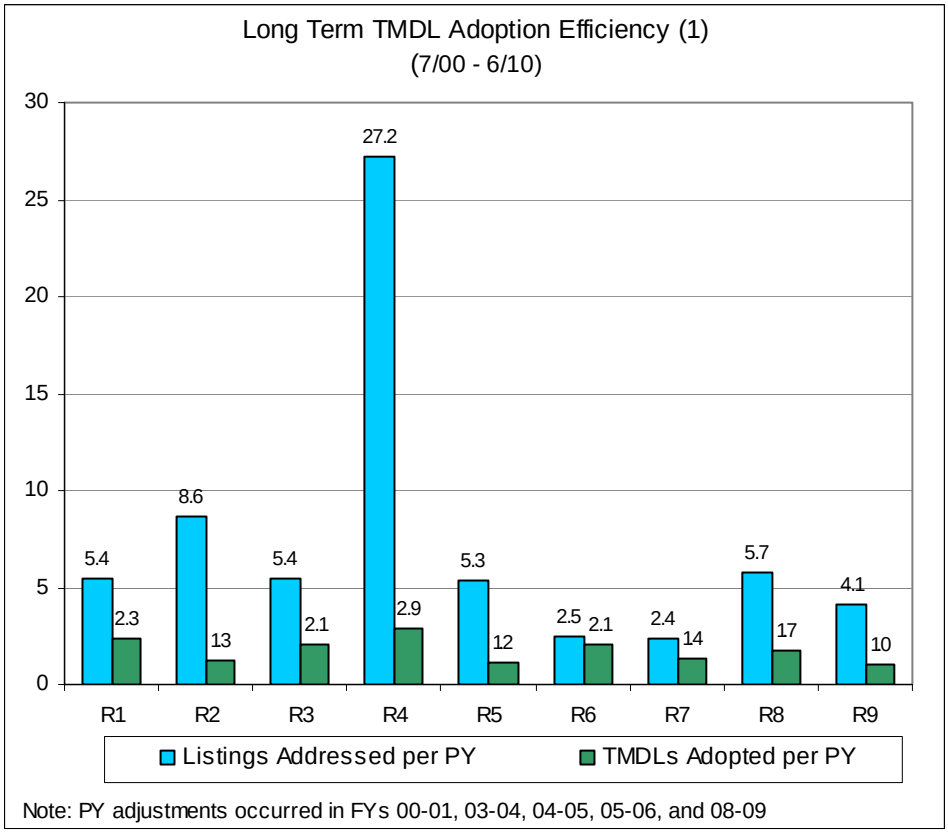

Region 6 TMDL Resource Allocation Trends
PY Distribution
12.00
10.00
8.00
6.00
4.00
2.00
0.00
FY 04-05
FY 05-06
FY 06-07
FY 07-08
FY 08-09
FY 09-10
FY 10-11
TMDL Development PYs
TMDL Implementation PYs
Regional Board Program Management PYs
WQ Assessment PYs
TMDL Program Budgeted PYs (line)

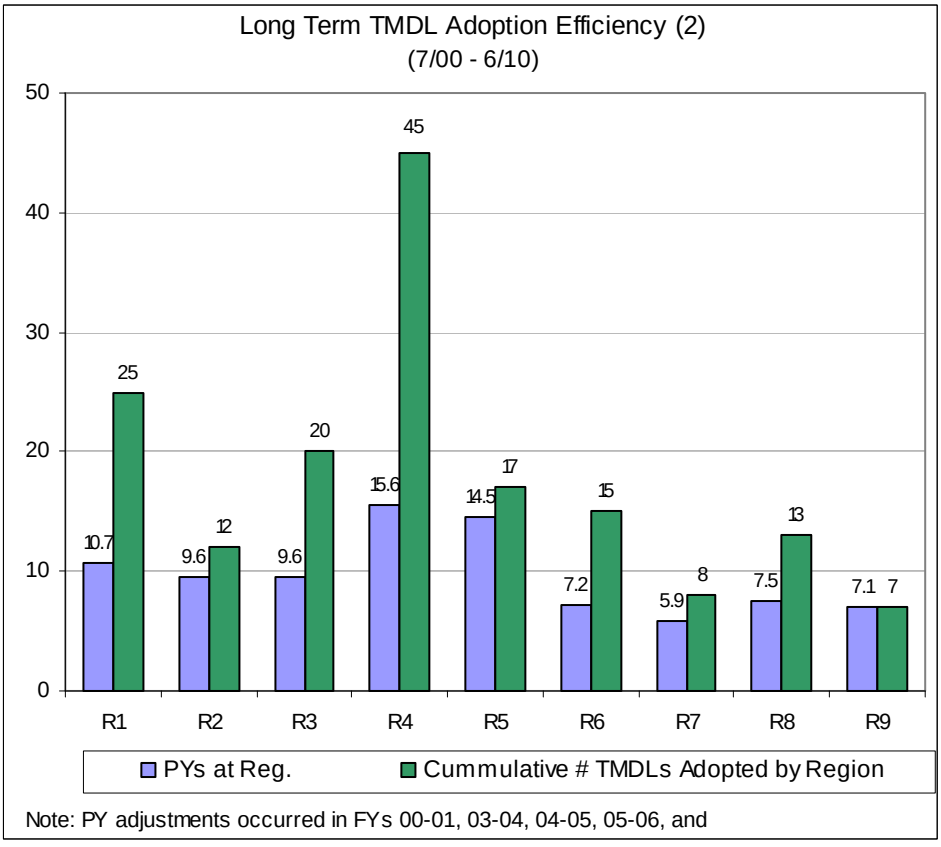

Region 7 TMDL Resource Allocation Trends
PY Distribution
12.00
10.00
8.00
6.00
4.00
2.00
0.00
12.0
10.0
8.0
6.0
4.0
2.0
0.0
FY 04-05
FY 05-06
FY 06-07
FY 07-08
FY 08-09
FY 09-10
FY 10-11
TMDL Development PYs
TMDL Implementation PYs
Regional Board Program Management PYs
WQ Assessment PYs
TMDL Program Budgeted PYs (line)


Region 8 TMDL Resource Allocation Trends
PY Distribution
12.00
10.00
8.00
6.00
4.00
2.00
0.00
12.0
10.0
8.0
6.0
4.0
2.0
0.0
FY 04-05
FY 05-06
FY 06-07
FY 07-08
FY 08-09
FY 09-10
FY 10-11
TMDL Development PYs
TMDL Implementation PYs
Regional Board Program Management PYs
WQ Assessment PYs
TMDL Program Budgeted PYs (line)

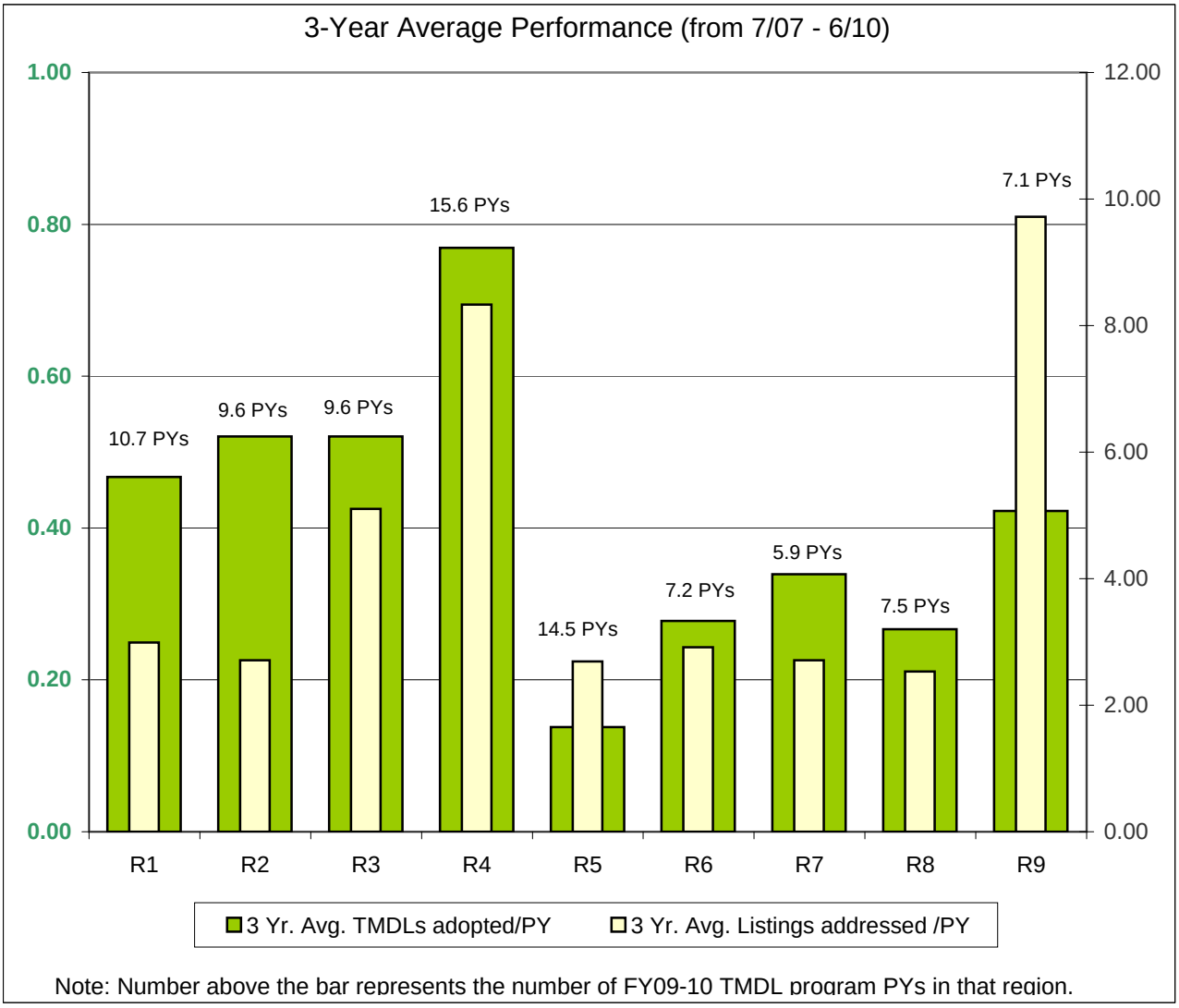

Region 9 TMDL Resource Allocation Trends
PY Distribution
12.00
10.00
8.00
6.00
4.00
2.00
0.00
12.0
10.0
8.0
6.0
4.0
2.0
0.0
FY 04-05
FY 05-06
FY 06-07
FY 07-08
FY 08-09
FY 09-10
FY 10-11
TMDL Development PYs
TMDL Implementation PYs
Regional Board Program Management PYs
WQ Assessment PYs
TMDL Program Budgeted PYs (line)

Long Term TMDL Program Efficiency

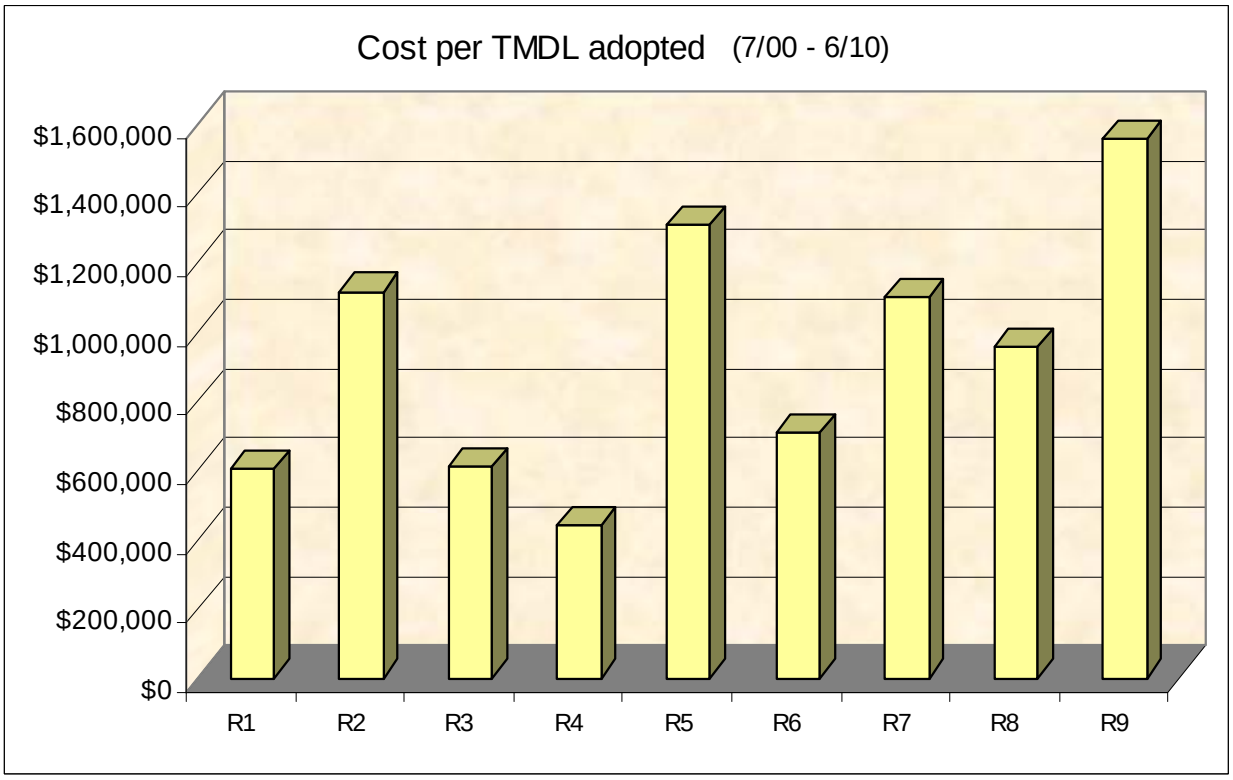


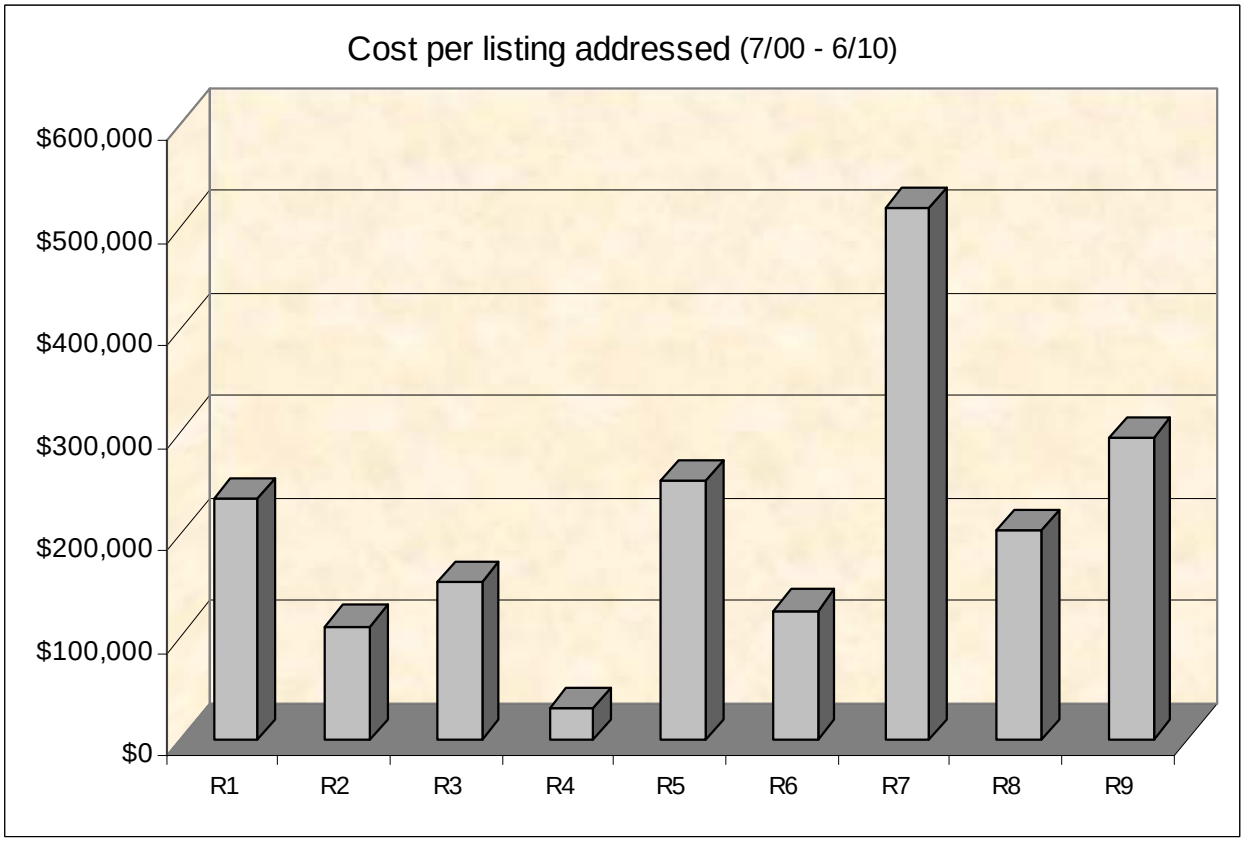


Short Term TMDL Program Efficiency



Note: Number above the bar represents the number of FY09-10 TMDL program PYs in that region.


Cost per TMDL adopted (7/00 - 6/10)
$1,600,000
$1,400,000
$1,200,000
$1,000,000
$800,000
$600,000
$400,000
$200,000
$0
R1
R2
R3
R4
R5
R6
R7
R8
R9


Cost per listing addressed (7/00 - 6/10)
$600,000
$500,000
$400,000
$300,000
$200,000
$100,000
$0
R1
R2
R3
R4
R5
R6
R7
R8
R9

Overdue Task Status Report

Reg.	Project Name	Deliverable Name	Status	Task Status Comment	Plan Start Date	Actual Start Date	Plan End Date
1	Elk River Sediment	Regional Board Action	Delayed	Replaces 5221. Lead staff person went on maternity leave in Dec 09, delaying completion of all tasks for this project.	6/1/09	NULL	8/31/09
1	Elk River Sediment	Final Water Quality Report	Not Started	Replaces 5227	6/1/10	NULL	6/30/10
1	Freshwater Creek Sediment	Numeric Targets	Delayed	TMDL being developed by Timber Harvest Division. The major landowner in the watershed initiated litigation against the Regional Board. Although delayed several times, the trial may occur in 2010 and the TMDL project lead staff has been diverted to work on the litigation. Completion of all tasks associated with this project are delayed.	11/1/06	11/1/06	8/31/09
1	Freshwater Creek Sediment	Final Preliminary Project Report	Delayed	Project delayed because primary staff assigned to litigation.	9/1/09	NULL	10/31/09
1	Freshwater Creek Sediment	Respond to Comments	Delayed	Project delayed because primary staff assigned to litigation	2/1/10	NULL	4/30/10
1	Freshwater Creek Sediment	Regional Board Workshop	Delayed	Project delayed because primary staff assigned to litigation	1/1/10	NULL	1/31/10
1	Freshwater Creek Sediment	Final Project Report	Delayed	Project delayed because primary staff assigned to litigation	11/1/09	NULL	12/31/09
1	Freshwater Creek Sediment	Source Analysis	Delayed	Project delayed because primary staff assigned to litigation	12/1/06	12/1/06	8/31/09
1	Freshwater Creek Sediment	Regional Board Action	Delayed	Project delayed because primary staff assigned to litigation	5/1/10	NULL	5/31/10
1	Freshwater Creek Sediment	Peer Review Request Submitted to State Board	Delayed	Project delayed because primary staff assigned to litigation	11/1/09	NULL	11/30/09
1	Elk River Sediment	Draft Final Project Report	Delayed	Lead staff person went on maternity leave in Dec 09, delaying completion of all tasks for this project.	7/1/09	7/1/09	12/31/09
1	Elk River Sediment	Submit Admin Record to State Board	Delayed	Lead staff person went on maternity leave in Dec 09, delaying completion of all tasks for this project.	12/1/09	NULL	5/31/10
1	Elk River Sediment	Regional Board Action	Delayed	Phase 6 tasks have been delayed indefinately as Lead staff person will go on maternity leave starting December 09.	12/1/09	NULL	3/31/10
1	Elk River Sediment	Final Draft Staff Report with RTC	Delayed	Lead staff person went on maternity leave in Dec 09, delaying completion of all tasks for this project.	10/1/09	NULL	1/31/10
1	Instream Flow Objective - DELETED	Draft Staff Report	Not Started	This project is being combined with Stream and Wetland Policy project; tasks for this project are incorporated in SWP project.	9/1/09	NULL	1/31/10
2	Butano & Pescadero Creeks sediment	Project Plan	Delayed	Project manager separated from State service. Leading to project delays.	7/1/09	7/1/09	10/31/09
2	San Mateo Coast Pathogens (Pacifica Beaches and San Pedro Creek)	Draft Basin Plan Amendment	Delayed	Delayed due to US EPA requirement that project address shellfishing BU - project definition was limited to addressing Contact Recreation BU and associated water quality targets	7/1/09	NULL	12/31/09
2	San Mateo Coast Pathogens (Pacifica Beaches and San Pedro Creek)	CEQA Scoping Workshop	Delayed	Delayed due to US EPA requirement that project address shellfishing BU - project definition was limited to addressing Contact Recreation BU and associated water quality targets	12/1/09	NULL	1/31/10
3	Salinas River Fecal Coliform	Administrative Record	Delayed	Regional Board formal decision postponed to next FY, likely Sept. 2010	3/1/10	NULL	3/31/10
4	San Gabriel River Metals (39)	State Board Action	Delayed	Project delayed due to updating CEQA document and pending model.	1/1/08	NULL	8/31/09
5	Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs	Preliminary Draft	Overdue	In progress (not yet completed). Anticipate completion of staff draft in late July.	9/1/09	12/1/09	10/31/09
5	Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs	Draft Source Analysis	Overdue	In progress (not yet completed). Anticipate completion of staff draft in late July. Delay due to more resources than expected being needed for support of the 2010 Integrated Report State Board hearing, planning and tool development for the 2012 Integrated Report, and stakholder involvement on the Pesticide TMDL.	8/1/09	8/1/09	10/31/09
5	Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs	Peer Review Draft	Not Started	Delayed schedule due to staff resources spent on 303(d)/Integrated Report adoption assistance and tool development, unanticipated complexity of BPA language approach, and work done during reporting period on second phase of Project (separate BPA for other pesticides).	11/1/09	NULL	11/30/09

Overdue Task Status Report

Reg.	Project Name	Deliverable Name	Status	Task Status Comment	Plan Start Date	Actual Start Date	Plan End Date
5	Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs	Implementation Section	Overdue	Not yet complete. Delay due to more resources than expected being needed for support of the 2010 Integrated Report State Board hearing, planning and tool development for the 2012 Integrated Report, and stakholder involvement on the Pesticide TMDL.	7/1/09	3/1/10	11/30/09
5	Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs	Costs Section	Overdue	In progress (not yet completed). Anticipate completion of staff draft in late July. Delay due to more resources than expected being needed for support of the 2010 Integrated Report State Board hearing, planning and tool development for the 2012 Integrated Report, and stakholder involvement on the Pesticide TMDL.	7/1/09	6/1/10	11/30/09
5	Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs	CEQA analysis	Overdue	In progress (not yet complete). Staff is actively drafting the CEQA SED, and is almost complete (anticipate completed draft in late July/early August).	10/1/09	3/1/10	11/30/09
5	Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs	Regional Board Order	Not Started	Updated schedule - Regulatory Action anticipated in January 2011.	5/1/10	NULL	6/30/10
5	Dolly Creek & Little Grizzly Metals TMDL and Basin Plan Amendment Project	Draft Report	Overdue	In progress	9/1/09	9/1/09	1/31/10
5	Dolly Creek & Little Grizzly Metals TMDL and Basin Plan Amendment Project	Draft Report	Overdue	In progress. A working draft containing the introduction, background information has been completed, along with data compilation and analysis. Some staff time for this project was diverted to the Delta Hg TMDL.	7/1/09	7/1/09	11/30/09
5	Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs	Draft Final Report and Response to Comments	Not Started	See comment for Peer Review Draft Report.	4/1/10	NULL	5/31/10
5	Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs	public review draft	Not Started	See comment for Peer Review Draft Report.	1/1/10	NULL	2/28/10
5	Lower American River and Lake Natoma Methylmercury TMDL Project	Draft Report	Overdue	The staff report is in progress. Alternatives and recommendations will be developed during the stakeholder process.	8/1/09	10/1/09	5/31/10
5	Lower American River and Lake Natoma Methylmercury TMDL Project	Workshop	Overdue	The CEQA workshop was public noticed and scheduled for 8 July 2010.	9/1/09	5/1/10	1/31/10
5	Lower American River and Lake Natoma Methylmercury TMDL Project	Workshop	Overdue	The Stakeholder meeting was public noticed and scheduled for 8 July 2010.	7/1/09	5/1/10	1/31/10
5	Delta Methylmercury TMDL Project	Administrative Record	Not Started	Task not completed, admin record and index preparation is in progress. This will be completed early FY 10/11.	12/1/09	NULL	6/30/10
5	Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs	Amendment Language	Overdue	In progress (not yet completed). Anticipate completion of staff draft in August. Delay due to 1) more resources than expected being needed for support of the 2010 Integrated Report State Board hearing, planning and tool development for the 2012 Integrated Report, and stakholder involvement on the Pesticide TMDL.; 2) additional time needed to determine legal options for addressing waterbodies that may be listed in future.	10/1/09	12/1/09	11/30/09
5	Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs	Source Assessment	Overdue	In progress (not yet completed). Anticipate completion of staff draft in late July. Delay due to more resources than expected being needed for support of the 2010 Integrated Report State Board hearing, planning and tool development for the 2012 Integrated Report, and stakholder involvement on the Pesticide TMDL.	3/1/09	3/1/09	10/31/09
5	Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs	Internal Review Draft Report	Overdue	In progress (not yet complete). Staff is actively working on preparation of the components of the Internal Review Staff Report, with completion anticipated in August.	11/1/09	3/1/10	11/30/09

Overdue Task Status Report

Reg.	Project Name	Deliverable Name	Status	Task Status Comment	Plan Start Date	Actual Start Date	Plan End Date
6	Lake Tahoe Nutrients/Sediment	Regional Board Order	Not Started	over ambitious planning	10/1/09	NULL	1/31/10
6	West Fork Carson River	Stakeholder Plan	Delayed	staff redirected	9/1/09	NULL	12/31/09
6	West Fork Carson River	Project Plan	Delayed	staff redirected	7/1/09	NULL	12/31/09
6	Lake Tahoe Nutrients/Sediment	Water Quality Summary Report	Delayed	The federal funds for this tasks are being adminstered to NDEP and have not been released for NDEP to issue the RFP. Anticipated the RFP will go out late summer/Fall 2010	7/1/09	NULL	6/30/10
6	Lake Tahoe Nutrients/Sediment	Water Quality Summary Report	Delayed	US EPA has not executed subcontract with Tetra Tech yet, aniticpated to begin in late April 2010	7/1/09	NULL	4/30/10
6	West Fork Carson River	Project Definition	Delayed	staff redirected	7/1/09	NULL	11/30/09
7	Alamo River DDT TMDL	Project Definition	Delayed	Lack of staff because TMDL unit was not allowed to hire.	7/1/09	NULL	8/31/09
7	Alamo River DDT TMDL	Project Plan	Delayed	Lack of staff because TMDL unit was not allowed to hire	9/1/09	NULL	12/31/09
7	Alamo River DDT TMDL	Source and Data Analysis, Linkage Analysis, Public Participation	Delayed	Lack of staff because TMDL unit was not allowed to hire.	11/1/09	NULL	6/30/10
7	Alamo River DDT TMDL	Data Gap Report	Delayed	Lack of staff because TMDL unit was not allowed to hire	7/1/09	NULL	10/31/09
7	New River Mercury TMDL	Draft Project Report	Delayed	The analysis found that the project requires further fish tissue sampling.	10/1/09	1/1/10	2/28/10
7	Alamo River Chlorpyrifos	Source and Data Analysis, Linkage Analysis, Stakeholder Outreach	Delayed	Staff was directed to work fully on New River DO TMDL that was adopted by the RB on May 20, 2010.	7/1/09	NULL	4/30/10
7	Alamo River Chlorpyrifos	Peer Review Project Report	Delayed	Staff was directed to work fully on New River DO TMDL that was adopted by the RB on May 20, 2010.	4/1/10	NULL	6/30/10
8	Newport Bay Watershed Organochlorine Compounds TMDL	CEQA & DFG Notices filed	Not Started	Completion of this work task is based on the SB approval of the BPA.	7/1/09	NULL	11/30/09
8	Prado Area Streams Pathogen TMDL	Ag Source Mangement Plan	Overdue	Draft Ag source evaluation report submitted 4/10. RB staff provided comments and final report due 8/10. Ag reduction plan submittal will be contingent on Ag owner ID expected to be complete 1/11.	1/1/10	5/1/10	6/30/10
8	Newport Bay Watershed Selenium TMDL	Response to Peer Review Comments	Not Started	All peer reviewers' comments not received by Dec 2009. Anticipated receipt Jan. 2010. Will write responses along w/ responses to public comments.	7/1/09	NULL	12/31/09
8	Lake Elsinore Watershed Nutrient TMDL	Biological Monitoring Plan	Overdue	Biomonitoring program is on-going and is expected to be completed 11/10.	7/1/09	8/1/09	6/30/10
8	2008 303(d) List Update	Provide assistance as needed	Delayed	State Board is delayed in approving Integrated Report. As of 6/30/10, State Board has not submitted Report to EPA.	1/1/10	NULL	6/30/10
8	2008 303(d) List Update	Provide assistance as needed	Delayed	As of 6/30/10, State Board is delayed on completing the Integrated Report approval proces. This results in this task showing as 'delayed' status by the Region - yet it delayed due to SB actions.	7/1/09	12/1/09	2/28/10
8	Big Bear Lake Mercury TMDL	Administrative Record	Delayed	RB supervisor re-directed to conducting enforcement activities delaying review of TMDL.	3/1/10	NULL	6/30/10
8	Newport Bay Watershed Selenium TMDL	Response to Peer Review Comments	Not Started	SSOs incorporated into TMDLs have resulted in a few months delay in these tasks.	5/1/09	NULL	9/30/09
8	Big Bear Lake Mercury TMDL	Regional Board Action	Delayed	RB supervisor re-directed to conducting enforcement activities delaying review of TMDL.	11/1/09	NULL	4/30/10
8	Lytle Creek Bacteria TMDL	Project Plan	Delayed	Task delayed to 07/10 when researcher will complete report.	7/1/09	NULL	11/30/09
8	Lake Elsinore Watershed Nutrient TMDL	TMDL Task 6 - On Site Disposal Systems Managment Plan	Not Started	Task completion is pending SB adoption of septic system regualtions.	7/1/09	NULL	6/30/10
9	Mouth of Chollas Creek	Regional Board Action	Not Started	This task will be replaced in FY10/11 with task 8214.	4/1/10	NULL	6/30/10
9	Mouth of Switzer Creek	Regional Board Action	Not Started	This task will be replaced in FY10/11 with task 8215.	4/1/10	NULL	6/30/10

Overdue Task Status Report

Reg.	Project Name	Deliverable Name	Status	Task Status Comment	Plan Start Date	Actual Start Date	Plan End Date
9	7th Street Channel (Paleta Creek Mouth)	Regional Board Action	Not Started	This task will be replaced in FY10/11 with task 8213.	4/1/10	NULL	6/30/10
9	2012 CWA Integrated Report (303d and 305b)	Compile Data and Associated Information	Overdue	Solicitation letter was issued January 14, 2010 and will close on June 30, 2010. Eight data sets are being processed for submittal to State Board.	9/1/09	1/1/10	1/31/10
9	Program Management and Program Support	Student Assistant Support of TMDL Projects	Not Started	Due to budget cuts, this task will not be funded.	7/1/09	NULL	6/30/10
9	Mouth of Switzer Creek	Peer Review	Not Started	This task will be replaced in FY10/11 with task 8211.	10/1/09	NULL	1/31/10
9	Mouth of Chollas Creek	Peer Review	Not Started	This task will be replaced in FY10/11 with task 8209.	10/1/09	NULL	1/31/10
9	7th Street Channel (Paleta Creek Mouth)	Peer Review	Not Started	This task will be replaced in FY10/11 with task 8207.	10/1/09	NULL	1/31/10
9	Mouth of Switzer Creek	Final Project Report	Not Started	This task will be replaced in FY10/11 with task 8212.	2/1/10	NULL	3/31/10
9	Mouth of Chollas Creek	Final Project Report	Not Started	This task will be replaced in FY10/11 with task 8210.	2/1/10	NULL	3/31/10
9	7th Street Channel (Paleta Creek Mouth)	Final Project Report	Not Started	This task will be replaced in FY10/11 with task 8208.	2/1/10	NULL	3/31/10
9	Santa Margarita Lagoon Eutrophic Condition	Modeling for Project Report	Not Started	This task, which was to be initiated in FY08/09, was abandonded as a result of budget cuts and furlough of staff resources in that fiscal year. These contract funds were redirected to Agua Hedionda Lagoon & Creek Bact., Sed, and TDS, and Famosa Slough & Channel Eutrophic Conditions projects. This task has no FY09/10 staff resources assigned to it and should be cancelled.	12/1/08	NULL	12/31/09
9	Los Penasquitos Lagoon Sedimentation	Participate in development of TMDL	Overdue	Stakeholder meetings began April 2, 2009 to discuss TMDL development/modeling, funding for modeling, and MOU. The modeling report was completed in April 2010. The parties have scheduled completion of technical report by July 2010 and have agreed to complete more elements of the TMDL report. Staff will continue to provide guidance through stakeholder meeting attendance. This task will be cancelled after the EOY Report, as the activities appear in other phases of the project.	2/1/09	4/1/09	2/28/10
9	Mouth of Switzer Creek	Final Preliminary Project Report	Overdue	Delayed as a result of competing program priorities and a reduction in available work hours to work on projects as a result of the furlough program. Some progress was made on the report throughout the year.	10/1/08	11/1/08	9/30/09
9	Mouth of Chollas Creek	Final Preliminary Project Report	Overdue	Delayed as a result of competing program priorities and a reduction in available work hours to work on projects as a result of the furlough program. Some progress was made on the report throughout the year.	10/1/08	11/1/08	9/30/09
9	7th Street Channel (Paleta Creek Mouth)	Final Preliminary Project Report	Overdue	Delayed as a result of competing program priorities and a reduction in available work hours to work on projects as a result of the furlough program. Some progress was made throughout the year.	10/1/08	11/1/08	9/30/09
9	Los Penasquitos Lagoon Sedimentation	Final Preliminary Project Report	Overdue	The 3rd Party Stakeholder Group will be submitting their technical report in July 2010. This task will be cancelled after EOY report and has been replaced by task 8244 in the FY10/11 Work Plan.	8/1/09	1/1/10	5/31/10
SB	TMDL Program Support	Mercury Offset Policy	Delayed	staffing limitations	1/1/07	1/1/07	6/30/10
SB	2008 Section 303(d) List Development	Agenda Item, Resolution, Additional Responses to Comments	Overdue	Delayed due to Regional Board delays in completing there reports. Final Regional Board took action in December 2009. Awaiting submittal of administrative record	4/1/10	4/1/10	4/30/10
SB	2008 Section 303(d) List Development	Submittal letter and supporting documents	Overdue	Delayed due to Regional Bord delays in completeing thier integrated reports	4/1/10	4/1/10	5/31/10

NORTH COAST REGIONAL WATER BOARD TMDL PROGRAM

Fiscal Year 2009-2010
Accomplishments, Challenges and Initiatives

This summary identifies those accomplishments of the North Coast Regional Water Board's TMDL Program for fiscal year 2009–2010 that are not reflected in the End of Year Report generated by Planner Tracker. In addition, this essay provides an in-depth summary, prepared by Timber Harvest Division staff, on the challenges, successes, and status of developing sediment TMDLs for Elk River (Attachment 1) and Freshwater Creek (Attachment 2), and the EOY TMDLs Not Adopted Form for Freshwater Creek Sediment TMDL (Attachment 3).

Accomplishments

Klamath River TMDLs – As depicted in the EOY Report, the Klamath River TMDLs were adopted by the Regional Water Board in March 2010. The EOY Report does not, however, reflect the fact that this TMDL project addresses the impairment for the blue-green algae toxin, microcystin. One reach of the Klamath River is on the current EPA-adopted 303(d) List. However, the Regional Water Board has adopted the 2008/2010 303(d) List (and State Board staff have recommended approving these new listings) that includes two additional reaches of the Klamath River for microcystin impairment. Therefore, if State Board adopts and EPA approves the 2008/2010 303(d) List with these new listings, the total count of listings addressed by the Klamath River TMDL Action Plan will increase from 17 to 19.

Klamath Hydroelectric Settlement Agreement - Since the signing of the Klamath Basin Restoration Agreement (KBRA) and Klamath Hydroelectric Settlement Agreement (KHSA) in February 2010, Regional Water Board TMDL staff has been actively involved with the efforts associated with these agreements. The KHSA lays out the process for additional studies, environmental review, and a decision by the Secretary of the Interior (Secretarial Determination) regarding whether removal of four dams owned by PacifiCorp: 1) will advance restoration of the salmonid fisheries of the Klamath Basin; and 2) is in the public interest, which includes but is not limited to consideration of potential impacts on affected local communities and tribes. Regional Water Board staff is supporting the Secretarial Determination process in a number of ways, including participation in the water quality committee and responding to requests by Department of Interior staff.

Klamath Basin Water Quality Improvement Tracking and Accounting Program - Working with US EPA Regions 9 and 10, Oregon Department of Environmental Quality, and PacifiCorp, Regional Water Board staff continue to make significant process in the development of a basinwide (California and Oregon) water quality accounting and tracking program that would establish a framework to track water quality improvements, facilitate planning and coordinated TMDL implementation, and enable appropriate water quality offsets or trades.

USFS waiver – With assistance from TMDL Unit staff, the North Coast Board adopted a conditional waiver addressing all non-point sources on USFS lands throughout the region in June. The waiver is particularly significant because it contains conditions that implements TMDL requirements for sediment and temperature over an area that covers over 40% of the North Coast Region.

Timber Waiver – With assistance from TMDL Unit staff, the North Coast Board developed and adopted a waiver for forestry activities employing low-impact management measures. The waiver contains conditions that implement TMDL requirements for sediment and temperature.

Klamath National Forest Monitoring Plan for Sediment and Temperature - The North Coast Board worked closely with Klamath National Forest staff to ensure that the KNF's monitoring program will provide data sufficient for use in listing determinations, to establish background water quality conditions, to link upslope management to water quality conditions, and assess TMDL implementation performance.

Grant Development and Management - Staff coordinated with local RCDs to ensure that grant proposals addressed specific TMDL needs and were competitive. Similarly, staff developed grant agreements for those grants that were awarded to ensure that the grant funds are effective at addressing TMDL concerns.

SWAMP Coordination - TMDL Unit staff worked closely with the North Coast Region's regional monitoring specialist in developing the SWAMP 5-Year Monitoring Plan to insure that data gaps identified during TMDL and Integrated Report development efforts are addressed in upcoming regional monitoring efforts.

Attachment 1: Development of the Elk River TMDL – Challenges and Successes

Overview

The Elk River watershed was added to the 303(d) list for sediment impairment in 1998. The impairments are impacting several beneficial uses, including the cold water fishery, domestic and agricultural water supplies as well as resulting in nuisance flooding conditions associated with loss of channel capacity. The primary cause of the sediment impairment is the rate and scale of timber harvesting activities in the watershed. The Elk River TMDL was originally scheduled for completion in 2011. However, following the listing, Elk River became a greater priority to the Regional Water Board as petitions were filed asking the Regional Water Board to take action to restore beneficial uses of water and protect against addition impacts from ongoing logging by Pacific Lumber Company, who owned the majority of the upper watershed. Among other actions, the Regional Water Board directed staff to accelerate the development of the TMDL in 2002. Since that time, the TMDL development has been subject to numerous challenges that have caused delays. These challenges include: staffing decisions, landowner and stakeholder interactions, data quality issues, contracting, permit development, ongoing litigation, and staff resources.

In spite of these challenges, many successes have been accomplished that help protect and restore water quality, including the development and implementation of cleanup and abatement orders for existing sediment sources, watershed waste discharge requirements to minimize new sediment sources, water quality monitoring to track attainment of water quality standards, and restoration planning to address stored legacy sediment contributing to beneficial use impairment and nuisance flooding. Further, significant progress has been made toward the development of the TMDL.

Challenges to the Development of the Elk River Sediment TMDL

In 2002, when the Elk River TMDL schedule was accelerated, the Regional Water Board's TMDL Development Unit was already tasked to develop TMDLs on a tight timeline due to a court consent decree. Therefore, the Executive Officer at the time assigned a single Timber Harvest Division (THD) staff person to develop the TMDL (using THD personnel and contract funds). Although the THD staff was familiar with the Elk River watershed and the timber harvest activities therein, and their associated impacts, the inexperience in TMDL development resulted in slow progress, especially due to poor project planning. Additionally, since the project was assigned to one staff person, rather than a team, as other work came up, progress on the TMDL stalled.

Specifically, in order to ensure the project utilized the best available information, extensive, existing and new sediment-related data were requested and then ultimately required of Pacific Lumber Company by the Regional Water Board. While Pacific Lumber Company assured cooperation, data submissions were incomplete, late, and refused, ultimately resulting in Pacific Lumber Company filing a lawsuit against the Regional Water Board. Staff redefined the project plan to work without the data.

Water quality monitoring was being conducted by numerous entities in the watershed, sometimes resulting in conflicting information. Staff spent significant time building trust and reaching agreement on methodology and data quality. Ultimately, the numerous data collection efforts have been helpful in characterizing conditions in Elk River.

In addition, contracting the development of TMDL products posed challenges. As landsliding was identified as the largest source of sediment in Elk River, the development of landslide hazard maps was prioritized for TMDL development. The basis of the landslide hazard maps is a high resolution Digital Elevation Map which involved the collection of LIDAR (Light Detection and

Ranging) data. There were significant delays associated with unfamiliarity with contracting processes; development of technical specifications of new technologies; and reliance of the hazard mapping contract on the products of the LiDAR contract and data submissions from Pacific Lumber Company. Ultimately, contracting was successful, and staff now have extensive experience in contracting matters.

As the Elk River TMDL was under development, the Regional Water Board directed staff to develop Watershed Wide Waste Discharge Requirements (Watershed WDRs), as a strategy for interim permitting of ongoing logging activities, as they did not qualify for the General Timber WDRs. However, the Watershed WDRs were controversial and required the assistance of the Elk River TMDL staff. (The proposed permits would limit the rate of harvest in the watershed, which was unprecedented). Staff developing the TMDL was re-assigned to assist in the development of the permits, which further delayed TMDL development. However, staff now are familiar with the development of WDRs and can anticipate future modifications to the WDRs to make them consistent with the TMDL.

Further, the development of the Elk River TMDL has been affected by ongoing litigation. The Pacific Lumber Company initiated litigation against the State of California and the Water Boards for breach of contract, claiming the actions of the Water Boards lead to its bankruptcy. Staff was required to prepare extensive records for discovery, diverting them from work on the TMDL.

Finally, the lead staff person for the Elk River TMDL is currently on maternity leave (beginning in November 2009). Given other TMDL development commitments, staff were/are unavailable to continue work on Elk River TMDL development tasks. The lead staff person will resume work on the TMDL upon her return from maternity leave, as reflected in the draft FY 10/11 Work Plan.

<u>Successes in the Development of the Elk River Sediment TMDL</u>

In spite of these challenges, many important successes have been accomplished that help protect and restore water quality in the Elk River watershed. These include:

1. The development and implementation of Cleanup and Abatement Orders in 2004-2006, which in combination with WDRs, will ensure that existing sediment sources on industrial timberlands in the watershed are addressed, including a process for identifying, prioritizing, scheduling, treating, monitoring and adapting over time.
2. Watershed WDRs for the industrial timber landowners in Elk River, including Humboldt Redwood Company (on the former Pacific Lumber Company lands) and Green Diamond Resource Company, to minimize new sediment sources, were adopted in 2006.
3. Ongoing monitoring of suspended sediment, turbidity, streamflow and rainfall throughout the watershed by various entities, using similar methods, thus assuring comparable data. This monitoring network will track progress toward attainment of water quality standards.
4. The development of landslide hazard maps to assist regulators and land managers in minimizing management-related landslide sediment delivery.
5. A strategy for the development of a channel restoration plan that will restore beneficial uses, alleviate nuisance flooding and restore ecosystem function is in development. A project team was assembled in 2009, including a partnering of stakeholders with technical experts, including Humboldt Redwood Company, and landowners. Grant funding is currently being pursued with California Department of Fish and Game, with cost shares from Humboldt Redwood Company.

Also, while there have been delays, progress has been made on the TMDL development.

1. The Elk River TMDL website is updated (and stakeholders informed) as draft work products become available for public review.
2. Numerous public participation opportunities have engaged crucial stakeholders in productive participation. These stakeholders include industrial timber landowners, small

non-industrial timber and grazing landowners, residents relying on surface water for domestic and agricultural supply, and agency staff.

3. The Introduction (Chapter 1) and Problem Statement (Chapter 2) are drafted and were made available to the public for comment in May 2009.
4. CEQA Scoping was conducted on the TMDL Action Plan including a well attended public scoping meeting in May 2009, and a compilation of scoping comments.
5. Peer reviewers have been solicited and identified.
6. The draft Source Analysis (Chapter 3) is close to completion and will be made available to the public in FY 10/11.
7. Implementation measures have been identified. With the exception of channel restoration that is needed to address legacy sediment impacts, the TMDL implementation plan will rely on *existing* permits and would not constitute new regulation therefore will likely not need a Basin Plan Amendment.

Attachment 2: Development of the Freshwater Creek TMDL – Challenges and Successes

Overview

The Freshwater Creek watershed was added to the 303(d) list for sediment impairment in 1998. The major cause of the sediment impairment was the extensive logging activities in the watershed. The TMDL was originally scheduled for completion in 2010. Due to the flooding that was occurring in the watershed caused by channel filling, the Regional Water Board wanted to accelerate the development of the TMDL, and Timber Harvest Division staff were assigned to start the TMDL development in 2002. Since that time, the TMDL development has been subject to numerous challenges that caused delays. These challenges include: staffing decisions, contracting, permit development, and ongoing litigation.

In spite of these challenges, many successes have been accomplished that help protect and restore water quality in the Freshwater Creek watershed. These include: development of landslide hazard maps, development and implementation of Cleanup and Abatement Orders (CAOs), and the development and implementation of Waste Discharge Requirements (WDRs). The CAO and WDRs implement actions that are leading toward attaining and maintaining water quality standards in the watershed. With the exception of channel restoration that is needed to address legacy sediment impacts, the TMDL implementation plan will rely on *existing* permits and therefore may not need a Basin Plan Amendment.

Challenges to the Development of the Freshwater Creek Sediment TMDL

When the Regional Water Board first indicated that staff should start the development of the Freshwater Creek TMDL in 2002, the TMDL development unit was already tasked to develop TMDLs on a tight timeline due to a court consent decree. Therefore, it was decided to have Timber Harvest Division (THD) staff develop the TMDL (using THD personnel and contract funds); the development of the TMDL was assigned to one person. Although THD staff had experience in reviewing logging activities and were knowledgeable in its impacts, the inexperience in TMDL development caused several delays.

One of the primary challenges for THD staff was developing contracts for completion of certain TMDL development work products. Potential university and other “exempt” contractors did not have the resources to assist in the development for this TMDL. Therefore, contracts were developed for bidding. However, the bidding and awarding of the contract was hampered by the lack of contractors and limits on purchase amounts. This caused numerous delays, because the Request For Proposals had to be re-developed and re-bid several times.

Another challenge for the THD staff was the development of permits, so logging could continue in the watershed while the TMDL was being developed. However, the permits (WDRs) were extremely controversial and required additional staff. (The proposed permits would limit the rate of harvest in the watershed, which was unprecedented). Staff developing the TMDL was re-assigned to assist the development of the permits, which further delayed TMDL development several years.

Finally, the development of this TMDL has been hampered by ongoing litigation. The former landowner of the majority of the land area within the watershed, Pacific Lumber Company, initiated litigation against the State of California and the Water Boards for breach of contract. The landowner claims that actions of the Water Boards led to its bankruptcy. This complex litigation is ongoing and staff is required to assist the AG’s office. The level of effort involved for THD staff has been significant, and has been the primary factor delaying progress for TMDL development.

Successes in the Development of the Freshwater Creek Sediment TMDL

Although there have been many challenges in developing the TMDL for this watershed, the Regional Water Board has had several successes. The development of high-resolution landslide

hazard maps was crucial in identifying areas of high risk for landsliding and hence sediment delivery. Staff uses these maps to review permit applications and to minimize the risk of future sediment delivery to the waterbody.

Also, the development and implementation of CAOs and WDRs were critical to start restoration of the watershed. The CAOs and WDRs implement, and go beyond, management measures and practices being used in other TMDL watersheds.

Future TMDL Development

Given the significant uncertainty in staff availability due to the ongoing litigation, staff has decided not to include in Planner Tracker tasks and a schedule for completing the Freshwater Creek TMDL for FY 10/11. However, Regional Water Board staff has undertaken several important steps to help the development of the TMDL. First, additional staff has been assigned tasks to assist the development of the TMDL in FY 10/11. Furthermore, staff has reevaluated implementation options for this TMDL. With the exception of channel restoration to address legacy sediment impacts, the TMDL implementation plan will rely on *existing* permits. Therefore, staff determined that the implementation of this TMDL will likely not need a Basin Plan amendment. Once the technical TMDL is completed, staff plans to develop a resolution for Regional Water Board consideration to address the channel restoration. This change in implementation strategy will save a large amount of staff time and will allow the quick completion of the TMDL once the diversion of staff resources due to the litigation has ceased.

Attachment 3: EOY TMDLs Not Adopted Form

Name of TMDL Project: Freshwater Creek Sediment TMDL

Waterbodies to be included in the TMDL: Freshwater Creek watershed

Pollutants to be addressed by the TMDL: Sediment

FY 09-10 Workplan scheduled adoption date: May 2010

New scheduled adoption date: TBD – see Attachment 2 for explanation

Why the FY 09-10 adoption date was not met: Ongoing litigation diverted staff.

What is being done to prevent a recurrence of this type of delay: Additional staff are being assigned TMDL development tasks.

NPDES permits (including stormwater) affected by the delay: none.

SAN FRANCISCO BAY REGIONAL WATER BOARD TMDL PROGRAM

Fiscal Year 2009 - 2010

Accomplishments, Challenges and Initiatives

This summary identifies those accomplishments, initiatives and challenges of the San Francisco Bay Regional Board's TMDL Program for fiscal year 2009–2010 that are not reflected in the End of Year Report generated by Planner Tracker.

TMDL Development, Adoption and Implementation

Accomplishments

This year a number of complex TMDLs were approved by State Board, OAL and EPA. They include the San Francisco Bay PCBs TMDL, the Guadalupe River watershed mercury TMDL, and the Richardson Bay Pathogens TMDL. State Board and OAL approved the Sonoma Creek sediment TMDL. The San Francisco Bay Water Board adopted a revised TMDL for sediment for the Napa River, addressing all remaining concerns. .

This past year a significant effort was undertaken to ensure the successful implementation of adopted TMDLs, and to initiate early implementation for TMDLs under development. One important example is the Tomales Bay/ Walker Creek Conditional Waiver of WDRs (grazing waiver) to address sources of pathogens and mercury in the Tomales Bay watershed. It is considered a model for working collaboratively with stakeholders. The initial compliance rate for this effort was 72 percent and we have begun early enforcement actions for those who have failed to reply/comply with the waiver. We also started building on the approach by working on a similar grazing waiver to implement TMDLs in Sonoma Creek and Napa River watersheds.

Adoption of the Municipal Regional Stormwater NPDES Permit (the Permit) covering 76 municipalities in Region 2 is a major accomplishment for implementation of our Bay TMDLs. The Permit includes all the stormwater related implementation actions identified in the San Francisco Bay mercury and PCBs TMDLs, as well as the urban creeks pesticide TMDL. The Permit also addresses trash listings. Adoption and implementation of the permit will be looked to during the next Integrated Report cycle to evaluate the need for a TMDL.

We continue to coordinate with stakeholders to maximize their ability to obtain grants, including federal 319 (h) proposals, federal San Francisco Bay Water Quality Improvement funds and other sources of funding, including ARRA grants and Cleanup and Abatement account funds. Examples include:

- ❖ Assisted stakeholders in successfully competing for four proposals in the 2010 federal 319(h) grant proposals for implementing TMDLs in Napa, Sonoma and Tomales Bay, to addressing non-point sources of pollution.
- ❖ Worked with the US EPA and Bay Area Stormwater Management Agencies Association, to secure $5M in federal San Francisco Bay Water Quality Improvement funds to implement part of a multi-year effort to reduce pollutants in stormwater to the Bay thus implementing the San Francisco Bay PCBs and Mercury TMDLs.
- ❖ Contracted with Marin Resources Conservation District through the State Board's Cleanup and Abatement Account, for $200K for projects/actions that stabilize Walker Creek. These implementation actions are driven by the Walker Creek Mercury and Pathogen TMDLs.
- ❖ Worked with local stakeholders on several stream and riparian habitat restoration projects which are recognized as key actions to reduce fine sediment delivery rates, as required in the Napa River sediment TMDL and Lagunitas Creek sediment TMDL (in development).

Challenges and Responses to Challenges

Budget uncertainty coupled with the 10% salary savings goal and reduced time-base resulting from the mandatory furlough program presented challenges in completing some TMDL work plan tasks. Specifically, key project and program staff (i.e., GIS support and geomorphology expertise) were not, and cannot be replaced. Given that, we used this challenge as an opportunity to, to reassign staff and to focus on achieving program efficiencies.

GIS support, however, remains a critical need, particularly in-light of our aggressive effort in developing and expanding our agricultural and grazing waiver programs into the Napa River and Sonoma Creek watersheds and in tracking compliance with the waiver programs.

Development of TMDLs for San Francisco Bay continues to be complex, involving multiple stakeholders, a large watershed, legacy pollutants and diffuse sources of pollutants. We continue to leverage efforts and funding through the Regional Monitoring Program, US EPA, and stakeholders to improve our state of knowledge about Bay processes and sources and causes of water quality impairment to complete additional TMDLs and adaptively manage adopted TMDLs.

While R2 has been successful at working with stakeholders in the Region to obtain grants, such as 319 grants to address TMDL implementation, there are insufficient resources to actively manage and advise the grantees on implementation actions. Despite this shortcoming, Staff continues to support these stakeholder efforts to obtain these types of funding and endeavors to manage them as efficiently as possible.

One challenge we overcame on the San Mateo Coast Beach Pathogen TMDL, was a US EPA requirement that the TMDL address attainment of shellfish water quality objectives. This resulted in a significant project delay, which has since been resolved through discussions with US EPA.

Initiatives in TMDL implementation

We made significant progress both in TMDL development and TMDL implementation. The implementation initiative examples discussed below provide insight into our ongoing strategy by taking early (pre-TMDL) implementation actions, with the goal of achieving tangible, real-time water quality improvements.

Grazing Waivers - Development and implementation of these waivers is significant as they identify a comprehensive strategy towards land management aimed at preventing and minimizing discharge of ALL pollutants, not just pathogens, from grazing lands covered by the program. This strategy constitutes early implementation and addresses other impairments in the watershed (i.e., nutrients, mercury, siltation/sedimentation) prior to development of these respective TMDLs.

Several specific accomplishments include:

- Finalized a $30K TMDL-funded contract to provide outreach on the Waiver requirements and to prepare a template Ranch Water Quality Plan for ranches in the watershed.
- Executed a contract (Conserving our Watershed II) with Marin RCD for $800K (2009 federal 319(h) grant) to work with ranchers on development of ranch water quality plans and in implementing BMPs.
- Worked with 319(h) grant applicants located at the Point Reyes National Seashore Park on a grant proposal in the amount of $453K for implementation of pathogen reduction BMPs in parklands at the National Seashore. This grant is referred to under “Accomplishments,” above.
- Began outreach to stakeholders in the Napa River and Sonoma Creek watersheds to guide development of a similar grazing waiver, as part of implementing sediment and pathogen TMDLs in those watersheds.

GUADALUPE RIVER WATERSHED MERCURY TMDL IMPLEMENTATION

We did not wait for final approvals before beginning implementation of this TMDL. Early implementation actions included:

- Issuing 13267 Orders to former mercury mine site property owners requiring the locating of mining wastes, assessment and ranking of wastes with respect to their erosion potential and bioavailability, and reporting of their results. These evaluations will inform future R2 actions requiring responsible parties to implement corrective actions for control of eroding mine wastes.
- Requiring responsible parties to evaluate and report on studies and corrective actions to address dry season thermal stratification of mercury-impaired reservoirs and lakes in the watershed; and
- Promoting a coordinated watershed monitoring effort aimed at furthering our understanding of mercury loading to the Bay and progress towards attainment of the TMDL.

SAN FRANCISCO BAY MERCURY TMDL IMPLEMENTATION

We continue to work on and complete a number of special studies required by the mercury TMDL. One special study was completed this past fiscal year that completed a first of its kind approach to quantification of mercury cycling through refineries during crude oil refining to address uncertainties identified in the TMDL

We continue to oversee and enhance a mercury investigation strategy through the Regional Monitoring Program that has supported the collection of information to better understand mercury cycling and methylmercury production. We worked collaboratively internally as well as externally (with scientists and managers of wetland restoration projects) to incorporate TMDL requirements related to methylmercury production in WDRs and to improve that state of the knowledge on the impact of restoration on the Bay mercury impairment. We continue to take a lead role working with wastewater and stormwater NPDES permittees to comply with TMDL requirements and the Mercury Watershed permit to reduce risks associated with the consumption of San Francisco Bay Fish.

NAPA RIVER AND SONOMA CREEK SEDIMENT TMDL IMPLEMENTATION

We've moved aggressively towards early implementation of the Napa River and Sonoma Creek sediment TMDLs prior to their final approvals by State Board and US EPA. Early actions include:

- Developing conditional waivers of WDRs for vineyard facilities, and
- Working with a third party program (i.e., Fish Friendly Farming Certification) in developing and implementing farm plans that are protective of water quality.

The vineyard waiver program will cover the Napa River and Sonoma Creek watersheds and will be conditioned to prevent and minimize the discharge of ALL pollutants (nutrients, pathogens, pesticides, and sediment) from vineyard facilities to surface waters. The key element of the waiver program will be the development of a "Farm Water Quality Plan", which will be designed to guide a strategy for choosing and implementing appropriate management practices.

While working with a third party program, since 2004, we have certified farm plans at more than 100 vineyard properties covering approximately 10,000 acres of vineyards, and 5,000 acres of adjacent rural lands covering an estimated 40% of the Napa River watershed.

July 2010

TMDL(s) Adopted in FY 09 - 10 per Workplan:

Napa River Sediment TMDL – adopted September 9, 2009

Pending FY 08/09 TMDL(s) That Will Not Be Adopted Before June 30, 2009

None

TMDL PROGRAM
OF THE
CENTRAL COAST REGIONAL WATER QUALITY CONTROL BOARD

Fiscal Year 2009-2010
ACCOMPLISHMENTS AND CHALLENGES

This essay is a short description of the accomplishments and challenges the central coast region's TMDL program experienced during the 2009-2010 fiscal year.

Accomplishments

The central coast region's TMDL program completed 94-percent of the tasks identified in the 2009-2010 TMDL work plan. Our goal is to maintain an 80% completion rate of TMDL tasks. Therefore, we achieved our goal in this category.

The central coast region's TMDL program committed to bringing two TMDLs before our board for approval in fiscal year 2009-2010; these two TMDL projects are the Salinas River Fecal Coliform TMDL and the Salinas River Pesticides TMDL. We were not able to obtain regional board approval for either of the TMDLs. We've provided a discussion of these tasks in the Challenges section of this essay.

The state water board approved our Pajaro River Watershed Fecal Coliform TMDL this fiscal year. The basin plan amendment incorporating the TMDL also establishes new prohibitions that set up a regulatory mechanism for addressing other impairments where domestic animal or human waste is a cause of impairment. This will expedite future TMDL development and implementation when these sources are identified as contributors to impairment.

We developed a data analysis report and draft numeric targets for nutrients for the Salinas River Nutrients TMDL project. The report is a robust analysis of numeric target development for nutrients aimed at protecting of a spectrum of beneficial uses. We are concurrently working on TMDL development for nutrient listings for the Santa Maria Watershed TMDL (over 30 nutrient listings). The Salinas and Santa Maria Watersheds have similar land-uses and causes of impairment. The resources expended for the Salinas project will be transferred to the Santa Maria project; we are getting two necessary analyses for the price of one.

We successfully solicited and received 319(h) grant funding for implementation efforts in the Pajaro and Morro Bay watersheds; both watersheds have approved TMDLs. We will work with grantees to address known sources of impairment

and further refine sources of impairment in these two important watersheds; the Morro Bay watershed is a Measure-W watershed.

We incorporated newly identified impairments (from the 2010 Integrated list) into an existing draft TMDL report for the Santa Maria Watershed TMDL. We are now poised to submit for approval a fecal indicator bacteria (FIB) TMDL addressing all the FIB listings in the Santa Maria watershed; there are15 FIB listings in the Santa Maria watershed. Incorporation of these newer impairments in the current project eliminates the necessity of either developing new TMDLs at a later time, or making amendments to existing TMDLs to incorporate the new impairments. We've committed to TMDL approval of this TMDL in fiscal year 2010-2011.

We developed a data analysis and report associated with the Santa Maria Watershed TMDL. The data analysis includes an analysis of the highly modified hydrology in the lower Santa Maria watershed; the hydrology is modified to meet agricultural and urban water management needs. The analysis was accomplished in association with the salts module of the larger Santa Maria Watershed TMDL, but will greatly aid TMDL development for the other three modules of the Watershed TMDL (modules include pesticides, nutrients, FIB, and salts). There are over 90 listings of impairment in the Santa Maria Watershed TMDL project.

Challenges

The Salinas River Fecal Coliform TMDL was scheduled for approval in fiscal year 2009-2010. Staff presented a TMDL to the central coast water board for approval that was reviewed by a third-party science review panel, and by USEPA, and met all other requirements for approval through the basin plan amendment process. Our regional board declined to take action and asked staff to bring the TMDL back to the board for consideration next fiscal year. The regional board indicated that the TMDL, as written and presented, was acceptable, but wanted to give stakeholder group representatives a longer period of time to disseminate the TMDL requirements to their constituents. Staff will prepare another board TMDL agenda item in fiscal year 2010-2011. We are confident the TMDL will be approved by our regional board in fiscal year 2010-2011.

The Salinas River pesticide TMDL was scheduled for approval in fiscal year 2009-2010. We completed the TMDL report and are ready to present it to our board for action. We forwarded the TMDL report to USEPA for review and comment. USEPA indicated the TMDL met the requirements necessary for their approval. They further suggested minor edits to further strengthen the report. We've identified irrigated agriculture as the significant source causing impairment due to pesticides. We currently have a waiver program for irrigated agriculture in

the central coast region; our Agriculture Program is currently developing new requirements for a renewed order. The current and new agricultural requirements will be the regulatory mechanism by which the Salinas River pesticide TMDL will be implemented (as well as the Santa Maria pesticide, Santa Maria nutrient, Santa Maria salts, and Salinas nutrient TMDLs currently in development). Therefore, a successful renewal of the agricultural order is of great importance in our region's effort to address impairments caused by agricultural activities. Our agricultural stakeholders include a large and strong network of individuals and groups who are strongly opposed to the current draft requirements for irrigated agriculture, including requirements that would implement the Salinas River pesticide TMDL. We concluded that it would be wise for the renewal of the agriculture order to evolve further before bringing the pesticide TMDL to our board for approval. We've committed to bringing the Salinas River Pesticide TMDL to our board in fiscal year 2010-2011.

June 2010

TMDL(s) Adopted in FY 08-09 per Workplan:

1. (list the TMDLs adopted and RB adoption dates)
2.
3.

Pending FY 08/09 TMDL(s) That Will Not Be Adopted Before June 30, 2009

Region: # 3	**TMDL: LOWER SALINAS RIVER WATERSHED FECAL COLIFORM TMDL**	
FY 09/10 Workplan RB Adoption Date: February 2010		Revised Adoption Date: September 2010
Expected Status as of June 30, 2009	RB3 will consider adoption at the September 2010 RB hearing.	
Reasons for Delay:	RB3 considered adoption in March 2010. RB chose to delay action until fiscal year 2010-2011 to allow stakeholder groups more time to inform their constituents.	
Actions Being Taking to Address Delay:	TMDL program staff is preparing another agenda item for the September 2010 RB3 hearing.	
Contact Person:	Pete Osmolovsky & Chris Rose	
Notes:		

Region: #	**TMDL: LOWER SALINAS RIVER WATERSHED CHLORPYRIFOS AND DIAZINON TMDLS**
FY 09/10 Workplan RB Adoption Date: May 2010	Revised Adoption Date: May 2011
Expected Status as of June 30, 2010	Staff poised to submit TMDL for adoption but waiting for Central Coast Region's Agricultural Order renewal process to evolve.
Reasons for Delay:	Agricultural discharges are the source causing impairment. Central Coast Region's Agricultural Order (a waiver) is the mechanism that will implement the TMDL. The Ag Order is currently being renewed. Ag Program staff is recommending increased regulation relative to the older order. Agriculture stakeholders are vehemently opposed to the proposed draft order. The RB members have asked for Ag Program staff to conduct workshops in the presence of the RB to discuss the draft order. Taking the Lower Salinas River Watershed Chlorpyrifos and Diazinon TMDLs to the Regional Board for approval before the Ag Order renewal process has evolved would give the impression that staff is moving forward with increased regulation before the stakeholder process directed by the Board has evolved.

Actions Being Taking to Address Delay:	TMDL program staff is working with Ag Program staff to develop TMDL implementation language consistent with a renewed Ag Order. TMDL program staff is also considering the potential of alternative TMDL adoption, e.g. USEPA approval of a technical TMDL, until the Ag Order has sufficiently evolved. Alternatives will be subject to RB and management consideration.	
Contact Person:	Larry Harlan & Chris Rose	
Notes:		

LOS ANGELES REGIONAL WATER BOARD TMDL PROGRAM

Fiscal Year 2009-2010

Accomplishments, Challenges and Initiatives

This summary identifies those accomplishments, initiatives and challenges of the Los Angeles Regional Board's TMDL Program for fiscal year 2009–2010 that are not reflected in the End of Year Report generated by Planner Tracker.

Accomplishments

- The Regional Board adopted the 2008 303(d) list at the July 16, 2009 Board meeting. TMDL staff was responsible for preparing the 303(d) list.
- The Regional Board adopted a reopener to the Los Angeles County MS4 permit to incorporate the Los Angeles River Watershed Trash TMDL at the December 10, 2009 Board meeting. TMDL staff contributed significant resources to ensure the incorporation of provisions that were consistent with the TMDL waste load allocations.
- The Regional Board adopted a reconsideration of the Los Angeles River Metals TMDL at the May 6, 2010 Board meeting. This reconsideration was not on the 2009/10 work plan and was necessary to address a permitting issue and to reflect the results of a discharger-led special study.
- Staff conducted extensive sampling in coordination with EPA to assess current water quality conditions in waterbodies on the consent decree.
- Staff provided technical support to EPA on the development of consent decree TMDLs, including the Los Angeles area urban lakes TMDLs for mercury, pesticides, PCBs, nutrients and trash, which was released for public comment in April 2010.
- Regional Board staff completed significant portions of the technical work on the following TMDLs. The first three were also publicly noticed prior to the end of the 2009-10 Fiscal Year.
    - Los Angeles River Bacteria TMDL (adopted in July 2010)
    - Santa Clara River Bacteria TMDL(adopted in July 2010)
    - Machado Lake Toxics TMDL (noticed for consideration in July 2010, and expected to be adopted in October 2010)
    - Ventura River Algae TMDL
    - Santa Monica Bay Nearshore Debris TMDL
    - Los Angeles and Long Beach Harbors Toxic and Metals TMDLs
    - Los Angeles Harbor Beaches Beach Closures, Marina del Rey Pathogens, Santa Monica Beach Closures/Bacteria

Challenges and Responses to Challenges

Several TMDLs, including the Los Angeles River Bacteria TMDL, were very complicated and controversial, requiring extensive staff resources to address stakeholder concerns about the targets, allocations and implementation.

For both TMDL development and TMDL implementation, limited staff resources, including loss of staff time due to the furlough program has been the most significant challenge to timely development and implementation of TMDLs.

Initiatives in TMDL implementation

- Staff reviewed and provided comments on 15 separate implementation plans for the Los Angeles River Metals TMDL.
- Staff reviewed and provided comments on 2 separate implementation plans for the Ballona Creek Metals TMDL.
- Staff reviewed and provided comments on 5 separate monitoring plans for the Machado Lake Nutrient TMDL.
- Staff negotiated and the Regional Board Executive Officer entered into a memorandum of agreement to implement the Machado Lake Nutrient TMDL load allocations.
- TMDL contracts were negotiated with UCLA to perform an economic analysis for the Los Angeles and Long Beach Harbors Toxic and Metals TMDL and UC Riverside to collect sediment samples from McGrath Lake in order to assist with TMDL implementation and lake restoration efforts.
- Staff worked with permitting staff to ensure that waste load allocations were successfully incorporated into several major and numerous minor NPDES permits.

July 2010

TMDL(s) Adopted in FY 09-10 per Workplan:

1. Colorado Lagoon Pesticides, PAHs, PCB, Metals TMDL
2. McGrath Lake PCBs, Pesticides and Sediment Toxicity TMDL

Pending FY 09/10 TMDL(s) That Will Not Be Adopted Before June 30, 2010

Region: # 4	**TMDL:** Los Angeles River Bacteria TMDL	
FY 09/10 Workplan RB Adoption Date: 05/10		Revised Adoption Date: 07/10
Expected Status as of June 30, 2010	This TMDL was adopted at the July 9, 2010 Board Meeting.	
Reasons for Delay:	Stakeholder driven, but also contentious TMDL. Stakeholder group, CREST, developed many of the technical documents that formed the basis for the TMDL. Several of these documents were not completed as scheduled, necessitating postponement of the public notice to allow for completion of these technical documents by CREST, and then their incorporation into the Regional Board's tentative TMDL.	
Actions Being Taking to Address Delay:	Item brought before Board at July meeting and approved.	
Contact Person:	L.B. Nye	
Notes:		

Region: # 4	**TMDL:** Santa Clara River Bacteria TMDL	
FY 09/10 Workplan RB Adoption Date: 06/10		Revised Adoption Date: 07/10
Expected Status as of June 30, 2010	This TMDL was adopted at the July 8, 2010 Board Meeting.	
Reasons for Delay:	1) Staff added a TMDL for Reach 3 during development of this TMDL, which increased the scope. 2) This TMDL was developed in parallel with the Los Angeles River Bacteria TMDL. 3) Staff working on this TMDL was required to prepare a revision of the Los Angeles River Metals TMDL, and this revision was not on the work plan.	
Actions Being Taking to Address Delay:	Item brought before Board at July meeting and approved	
Contact Person:	Jenny Newman	
Notes:		

Region: # 4	**TMDL:** Machado Lake Pesticides and PCBs TMDL
FY 09/10 Workplan RB Adoption Date: 05/10	Revised Adoption Date: 09/10
Expected Status as of June 30, 2010	This TMDL was noticed for the July 9, 2010 Board Meeting, but the Board continued the item to the September 2, 2010 meeting.

Reasons for Delay:	One of the staff expected to help on this TMDL went on maternity leave. Remaining staff working on this TMDL also coordinated with EPA on development of other Lake pesticide TMDLs in the region. Technical issues had to be worked out with EPA before TMDLs could be noticed.	
Actions Being Taking to Address Delay:	Item brought before Board at July meeting. Item was continued to September 2010 Board meeting and staff expects the Board to adopt the TMDL at that time.	
Contact Person:	Jenny Newman	
Notes:		

Region: # 4	**TMDL:** LA Harbor Beaches Beach Closures, Marina del Rey Pathogens, Santa Monica Beach Closures/Bacteria	
FY 09/10 Workplan RB Adoption Date: 04/10		Revised Adoption Date: 02/11
Expected Status as of June 30, 2010	Staff expects to bring the reconsiderations to the Board in February 2010.	
Reasons for Delay:	Staff has completed much of the technical work on these reconsiderations, but preparation of regulatory documents was delayed due to staff needing to work on Los Angeles River Bacteria TMDL, which took priority because it is a consent decree-required TMDL.	
Actions Being Taking to Address Delay:	Los Angeles River Bacteria TMDL has been adopted and resources are now available to work on these Bacteria TMDL reopeners.	
Contact Person:	L.B. Nye	
Notes:		

Region: # 4	**TMDL:** Santa Clara River Estuary Chem A, Toxaphene	
FY 09/10 Workplan RB Adoption Date: 06/10		Revised Adoption Date: 10/10
Expected Status as of June 30, 2010	The technical report for the TMDL is completed. The approval is expected to occur along with the Conditional Waiver renewal at the October 7, 2010 Board meeting.	
Reasons for Delay:	Waiting for Conditional Waiver renewal.	
Actions Being Taking to Address Delay:	Coordinating with Conditional Waiver program to incorporate TMDL in order to implement TMDL as single regulatory action.	
Contact Person:	Jenny Newman	
Notes:		

CENTRAL VALLEY REGIONAL WATER BOARD TMDL PROGRAM

Fiscal Year 2009-2010

Accomplishments, Challenges and Initiatives

This summary identifies those accomplishments, initiatives and challenges of the Central Valley Regional Board's TMDL Program for fiscal year 2009–2010 that are not reflected in the End of Year Report generated by Planner Tracker.

Accomplishments

- Delta Methylmercury TMDL Project. The Delta TMDL is a very controversial project that involves numerous point and non-point sources of methylmercury, competing beneficial uses, previously non-regulated sources (e.g., wetlands), and stakeholders indicating that they should not be responsible for a legacy pollutant. After an extensive stakeholder process that resulted in a phased approach to addressing the mercury impairment, the Regional Board adopted the TMDL in April 2010.
- Central Valley Organochlorine Pesticides. CEQA Scoping for this TMDL was held in July 2009. Staff held a public meeting with stakeholders on the status of this TMDL in June 2010. This was the first in a series of meetings to be held between June 2010 through January 2011, prior to the anticipated release of a draft Staff Report in late winter/early spring 2011.
- Upstream San Joaquin River Salt and Boron. A Draft Technical Report on crop tolerance to salinity was released in March 2010, with comments received through June. In late June 2010, TMDL Staff transferred this project, focused on establishing site specific objectives, to the CV-SALTS stakeholder group. It is no longer part of the TMDL workplan for the 10/11 fiscal year.
- Implementation of approved TMDLs
    - Cache Creek, Bear Creek and Harley Gulch Mercury. Staff coordinated on cleanup orders for mercury mine sites, resulting in the Regional Board adopting 2 mine cleanup orders and technical reports orders requiring mine owners to assess the nature and extent of mine wastes on their properties. Staff worked with multiple state and federal agencies evaluate whether the Cache Creek watershed would be a candidate for a Natural Resources Damage Assessment. Staff completed a report that evaluates the spatial distribution of mercury in sediment and identifies tributary sources of mercury in Cache Creek.
    - Clear Lake Mercury. Staff reviewed plans and provided guidance to stakeholders implementing the Clear Lake mercury and nutrient TMDLs. Responsible agencies conducted three watershed assessments and completed an integrated watershed management plan.
    - Diazinon and Chlorpyrifos (Sacramento/Feather Rivers, San Joaquin River and the Delta). Staff continues to coordinate on implementation of these three TMDLs. Reaches of Sacramento and Feather Rivers and San Joaquin River are proposed to delist for diazinon. This was likely attributable to implementation of management practices, including reduced use, which were encouraged in part by Department of Pesticide Regulation's dormant spray regulations.
    - San Joaquin River Dissolved Oxygen. A $10 million full-scale aeration facility was constructed in the Stockton Deep Water Ship Channel in late 2007. In 2008, the facility began a two-year demonstration to evaluate the efficiency of using aeration to increase dissolved oxygen levels in the channel. Since February 2010, TMDL staff have been regularly meeting with stakeholders to discuss various TMDL

implementation measures such as the development of a funding agreement that would continue the operation of the aerator after the demonstration period ends in December 2010. Stakeholders have a strong interest in the using the aerator to maintain dissolved oxygen levels at or above the water quality objective.

- San Joaquin River Salt and Boron. Staff continues to track implementation measures related to this TMDL, including actions required in the Management Agency Agreement between the Regional Board and United States Bureau of Reclamation (USBR). Efforts included USBR holding meetings on development of a stakeholder-driven Real Time Management Program (RTMP), engaging contractors to explore options for RTMP, and documentation of actions in place to meet the MAA's requirement for USBR to reduce excess loading by 25% by 2012 (TMDL compliance required by 2014).
- Stockton Sloughs Pathogens. Staff continues to track TMDL progress through Annual Stormwater Reports. Following the schedule in the Stockton MS4 Pathogen Plan, Phase II Characterization monitoring for Mosher Slough and Five Mile Slough was completed in May 2009 while Source Identification studies are in progress. Phase II best management practices will commence in 2010.

Challenges and Responses to Challenges

- Sacramento and San Joaquin Pesticides. The Regional Board adoption hearing for this TMDL has been delayed from June until January 2011. Staff has spent more time than expected for support of the 2010 Integrated Report State Board hearing, planning and tool development for the 2012 Integrated Report, and stakeholder involvement on this Pesticide TMDL. This BPA will establish water quality objectives for over 1,000 waterbodies, only a small portion of which is currently on the 303(d) List. Staff is currently working through options for how the Basin Plan Amendment will address waterbodies that may be listed for diazinon and chlorpyrifos in future, so additional BPAs will not be necessary. Staff has also spent time during the last fiscal year working on the technical information development needed for the next BPA. Efforts include contract management and releasing draft and then finalizing water column criteria reports for five other pesticides, which may be used to aid in water quality objective setting for the next BPA(s).
- Delay of State Board Adoption of current (2008/2010) 303(d)/305(b) Integrated Report. State Board has delayed adoption of the state-wide Integrated Report from June to August 2010. About half of the issues singled out by State Board members for additional information were regarding the Central Valley Water Board's 303(d) list, and thus the staff who worked on these 303(d) issues has spent more time than anticipated this year, and early in the 10/11 fiscal year to help address these issues. Staff also spent time during 09/10 fiscal year working on preparing the administrative record for State Board submittal and more time than anticipated participating in tool development for the next Integrated Report.
- Lower American River and Lake Natoma Methylmercury. This project was delayed due to staff redirection to work on the Delta methylmercury TMDL, assisting State Board with the SWAMP Contaminates in Lakes Study, assisting with data collection for the Delta ammonia studies, and data collection for the upstream mercury TMDLs. To increase TMDL output for this project, staff added Lake Natoma (the original project was for the lower American River only). The workshop and CEQA scoping meeting scheduled for FY09/10 was held in July 2010.

June 2010

TMDL(s) Adopted in FY 09-10 per Workplan:

1. Delta Methylmercury TMDL (adopted April 2010)

Pending FY 09/10 TMDL(s) That Will Not Be Adopted Before June 30, 2010

Region: #5	**TMDL: SACRAMENTO AND SAN JOAQUIN PESTICIDES BPA AND TMDL (DIAZINON AND CHLORPYRIFOS)**
FY 09/10 Workplan RB Adoption Date: June 2010	Revised Adoption Date: January 2011
Expected Status as of June 30, 2010	Draft Staff Report partially complete. Staff has completed the following sections of the draft Staff Report: Background, Beneficial Uses/Waterbodies, Policies, and Monitoring. Staff Report sections that are currently in progress include Source Analysis/Load Assessment, Water Quality Objectives, Amendment Language, Implementation, and Costs. Staff has been meeting with stakeholders on preliminary draft Basin Plan Amendment Language. First draft language was released in January 2010, with comments received in February. Second draft language was released in May 2010 and, based on feedback from our legal staff, we anticipate releasing revised language in July. Though three previous TMDLs have been completed for diazinon and chlorpyrifos, new issues have come up due to the large scope of this project (setting objectives for more than 1,000 waterbodies) and due to new stakeholders and issues, as there is concern the approach taken on this Project will be carried over to the next BPA (pyrethroids, which is expected to be contentious). One challenge to meeting the adjusted completion date (Jan 2011) is that a key staff person for both this project and the 303(d) List, has spent more time than anticipated aiding State Board on issues related to their List adoption (which has now been delayed from June to August). This staff person has the sole expertise on certain issues for both projects, and thus far has had some of his time diverted away from this project towards 303(d), which has slowed progress on this project during the last several months.
Reasons for Delay:	Delay due to more resources than expected being needed for support of the 2010 Integrated Report State Board hearing, planning and tool development for the 2012 Integrated Report, and stakeholder involvement on the Pesticide TMDL. This Project will establish water quality objectives for over 1,000 waterbodies, only a small portion of which is currently on the 303(d) List. Staff is currently working through options for how the Basin Plan Amendment will address waterbodies that may be listed for diazinon and chlorpyrifos in future (legal options for including requirements for potential future 303(d) listings, so additional BPAs will not be necessary).
Actions Being Taking to Address Delay:	Extensive efforts have taken place during the 09/10 year to help get this project completed by the new date of January 2011. One major change is that the Unit, which had not had a Senior for several years, had a new Senior assigned in March 2010 (A.Montgomery). The new Senior is using project management tools to help get the Project moving forward. This now includes weekly status meetings since March 2010 with staff on their sections of Draft Staff Report. Staff have also given briefings on the project to Management.
Contact Person:	Amanda Montgomery amontgomery@waterboards.ca.gov
Notes:	

California Regional Water Quality Control Board, Lahontan Region
TMDL Program – Fiscal year 2009-2010
Accomplishments and Challenges

This summary identifies those accomplishments, initiative and challenges of the Lahontan Regional Board's TMDL Program for fiscal year 2009-2010 that are not reflected in the End of Year Report generated by Planner Tracker.

TMDL Development

Highlights

- Lake Tahoe TMDL – Board staff received positive and supportive comments from five independent, scientific peer reviewers of the draft TMDL report, which included a review of three technical support documents: 1) Lake Tahoe TMDL Technical Report, 2) Pollutant Load Reduction opportunity Report, and 3) Integrated Water Quality Management Strategy Report. Staff revised the draft TMDL report and updated the TMDL Technical Report based on the peer review comments. The draft TMDL was officially released for public review and comment in June 2010.

- West Fork Carson River and Tallac Creek Pathogens – Board staff continued monitoring water quality for impacts of grazing activities.

Challenges

- Lake Tahoe TMDL – Since this TMDL is a joint effort with the state of Nevada, the coordination and review of specific elements in the TMDL took much longer than expected to ready the draft for public review and comment. Board staff spent considerable time, meeting with all stakeholders and presenting technical information about the TMDL and the draft implementation plans, during the development of the load allocation tables and specific components of the TMDL. Board staff drafted a package that recommended numerous language changes to the Lahontan Region's Basin Plan to make the regulatory language consistent with TMDL scientific findings.

- Eagle Lake Nutrient TMDL – Board staff commenced work on developing the problem statement and assessment of water quality data, but the most recent water quality sampling was more than six years ago. Staff will attempt to draft a source linkage analysis based on the older data without incurring additional assessment costs.

- Various Pathogen TMDLs – Grant funds under Proposition 84 have been delayed more than nine months by statewide processes, which has caused delays in developing grant agreements for water quality analyses

and public outreach for impairments in the Carson River, Susan River, and Owens River watersheds.

TMDL Implementation

Highlights

- Lake Tahoe TMDL – Board staff continued working with CalTrans and with local county and city municipalities on developing and implementing stormwater management plans that will be consistent with the TMDL. Under federal grants, contractors developed a Lake Clarity Crediting Program that the Regional Board expects to incorporate into the Municipal NPDES Storm Water Permits for each entity. The Crediting Program will include methodologies to measure, track, account, and credit for TMDL load reduction actions that are linked to the lake's deep water transparency response.

- Squaw Creek Sediment TMDL – Board staff helped Placer County execute a multi-party agreement between all responsible parties to fund and implement a bioassessment monitoring plan, which is scheduled to commence during fiscal year 2010-2011.

- Truckee River Sediment TMDL – Board staff worked with the Town of Truckee on implementing plans to begin rapid assessment methodologies for tracking and accounting load reduction actions.

- Heavenly Valley Creek Sediment TMDL – Board staff worked with Heavenly Ski Resort and with the US Forest Service-Lake Tahoe Basin Management Unit (LTBMU) on assessing the TMDL implementation progress since all required elements have been completed. Based on a rough assessment of the water quality data, it appears Heavenly Valley Creek may be meeting its numeric target for suspended sediment.

- Blackwood Creek Sediment TMDL – The sole responsible party for implementing this TMDL, the LTBMU, completed a full restoration project on the severely altered sections of Blackwood Creek. Board staff is working with LTBMU staff on required monitoring and reporting components of the stream restoration project.

Challenges

- Lake Tahoe TMDL – The fine sediment particle load, which is the dominant cause of the lake's deep water transparency loss, is coming primarily from urban stormwater, re-entrained dust, and soil erosion. Advanced technology road sweepers show promise in removing the fine sediment particles from paved areas. The contracted consultants estimated that na aggressive and innovative approach removing fine

sediment particles from urban stormwater will cost about $100 million per year, basin-wide, to restore on-third of Lake Tahoe's deep water transparency within 20 years. Though this TMDL is based on sound science and provides maximum flexibility for responsible parties to achieve load reductions, large challenges remain to procure adequate annual funding to maintain stormwater treatment facilities for removing the most fine sediment particles as possible.

June 2010

Pending FY 09/10 TMDL(s) That Will Not Be Adopted Before June 30, 2010

Region: #6	**TMDL: LAKE TAHOE SEDIMENT & NUTRIENTS**	
FY 09/10 Workplan RB Adoption Date: 06/2010		Revised Adoption Date: 11/2010.
Expected Status as of June 30, 2010	Public Hearing scheduled for September 7-8, 2010 Regional Board meeting; comments requested by September 10, 2010.	
Reasons for Delay:	1) stakeholder involvement and development of implementation tools delayed CEQA document and proposed basin plan amendment language, 2) staff report out for a 90-day public review/comment period with proposed basin Plan Amendment being circulated for 60+ days, 3) bi-state TMDL with state of Nevada took longer than expected to make necessary adjustments before issuing public draft.	
Actions Being Taking to Address Delay:	Redirected staff resources to focus efforts on putting together the draft and continuing to work with stakeholders on implementation plans.	
Contact Person:	Douglas F. Smith	DFSmith@waterboards.ca.gov or (530) 542-5453
Notes: This TMDL is the first of its kind in the nation with an implementation plan for the urban non-point sources that includes a formal crediting program to directly link and quantify load reduction efforts with lake transparency response.		

COLORADO RIVER BASIN REGIONAL WATER BOARD TMDL PROGRAM

Fiscal Year 2009-2010

Accomplishments, Challenges and Initiatives

This summary identifies those accomplishments, initiatives and challenges of the Colorado River Basin Regional Board's TMDL Program for fiscal year 2009–2010 that are not reflected in the End of Year Report generated by Planner Tracker.

ACCOMPLISHMENTS

Monitoring and Assessing the New River at the International Boundary

Regional Board staff has been conducting monthly monitoring activities on the New River at the International Boundary for about 11 years. Regional Board staff and Regional Board members in coordination with the US Section of the International Boundary and Water Commission have been participating in bimonthly tours in Mexicali, Mexico to survey and report water quality activities on the New River inside Mexico. Both monitoring activities and the tours provided the TMDL Program with valuable information in developing and implementing New River Dissolved Oxygen/Pathogens/ Sediments/Trash TMDLs.

CHALLENGES AND RESPONSES TO CHALLENGES

Peer Review Issues

Regional Board staff response to peer review comments on the New River Dissolved Oxygen (DO) TMDL computer model delayed the TMDL several months. Regional Board staff does not have the expertise to respond to the specific modeling comments. This issue was resolved by asking the USEPA to grant Tetra Tech Inc. an in-kind contract to assist with responding to these specific modeling comments. It took several months to find a resolution to this challenge. The peer review comments were responded to in January 2010. This allowed RB staff to take the TMDL for RB action in May 2010.

Laboratory contracts

Laboratory contracts are limited to one fiscal year only. Considering the several months to execute a state contract and delays with the State Budget approval, the Regional Board's TMDL monitoring period is reduced to 5 to 8 months in a fiscal year. As a result, several important monitoring events have to be cancelled. These challenges are mitigated through using laboratory contracts from other programs when there isn't a TMDL laboratory contract in place.

INITIATIVES IN TMDL IMPLEMENTATION

Long Term TMDL Implementation for the Agricultural Community in Imperial County

Regional Board staff has been conducting several meetings with Imperial County Farm Bureau, Imperial Irrigation District, and other impacted stakeholders to address implementation of all TMDLs in the Imperial Valley. Regional Board staff has also been managing grants related to this effort since 2003.

SANTA ANA REGIONAL WATER BOARD TMDL PROGRAM

Fiscal Year 2009-2010

Accomplishments, Challenges and Initiatives

This summary identifies those accomplishments, initiatives and challenges of the Santa Ana Regional Board's TMDL Program for fiscal year 2009–2010 that are not reflected in the End of Year Report generated by Planner Tracker.

Accomplishments

TMDL Development: Big Bear Lake Mercury TMDL

- Continued to draft Technical Staff Report
- Initiated discussion with State Water Board/Regional Board staff re: statewide development of Mercury TMDLs for waterbodies with atmospheric deposition as primary or sole source
- Initiated contact and discussions with local air quality districts
- Fish tissue collection/monitoring completed

TMDL Development: Newport Bay Watershed Selenium TMDLs and SSOs

- As currently drafted, the draft technical staff report has undergone both full peer review and extensive public review and comment
- Early implementation measures such as pilot and full testing of selenium removal technologies are already being pursued by the regulated stakeholders to evaluate possible reductions in the rising groundwater, the primary source of elevated selenium concentrations
- Other potential innovative watershed-wide programs to manage selenium sources are being considered for incorporation into the Implementation Plan

TMDL Implementation: Big Bear Lake Nutrient TMDL, Lake Elsinore/Canyon Lake Nutrient TMDLs, Middle Santa Ana River Bacteria TMDLs, Newport Bay Watershed Nutrients TMDLs, Newport Bay Watershed Diazinon/Chlorpyrifos TMDLs, Newport Bay Fecal Coliform TMDL, Newport Bay Watershed Toxics TMDLs

Oversaw TMDL implementation including the following:

- Incorporated all TMDLs and TMDL requirements into relevant MS4 permits
- Issued 13267 investigative orders and NOVs (for non-compliance with 13267 Order) to agricultural dischargers requiring implementation of relevant TMDLs' agricultural requirements
- Continued coordination with State Water Board staff to Incorporate all TMDLs and TMDL requirements into draft State Water Board Caltrans Storm Water permit

Challenges and Responses to Challenges

The Newport Bay selenium TMDLs/SSOs and the Big Bear Lake Mercury TMDL are very complicated and controversial, requiring extensive staff resources to address stakeholder concerns about the targets, allocations and implementation.

For both TMDL development and TMDL implementation, limited staff resources, including loss of staff time due to the furlough program has been the most significant challenge to timely development and implementation of TMDLs. (The region receives 7.5 PYs in TMDL resources and a portion of those resources go to support the Integrated Report development activities.)

Addressing agricultural (Ag) load allocations and Ag TMDL requirements continues to be a challenge. Most of the Regional Board's adopted TMDLs require specific actions by the Ag operators/owners including load reductions, monitoring, etc. Board staff continues to work on the development of an Ag waiver.

June 2010

TMDL(s) Adopted in FY 09-10 per Workplan:

none

Pending FY 09/10 TMDL(s) That Will Not Be Adopted Before June 30, 2010

Region: # 8	**TMDL: BIG BEAR LAKE MERCURY**	
FY 09/10 Workplan RB Adoption Date: 4/10		Revised Adoption Date: 12/10
Expected Status as of June 30, 2010	Continued development of Technical Report draft.	
Reasons for Delay:	Senior staff had been re-directed to address a high priority enforcement action and has not been able to review Technical Report.	
Actions Being Taking to Address Delay:	Enforcement action has been completed.	
Contact Person:	Hope Smythe	951-782-4493
Notes:		

Region: # 8	**TMDL: NEWPORT BAY WATERSHED SELENIUM**	
FY 09/10 Workplan RB Adoption Date: 02/10		Revised Adoption Date: 06/11
Expected Status as of June 30, 2010	Continuing revisions on the draft BPA and SSO documents	
Reasons for Delay:	Late discussions with SB and EPA staff identified IP compliance issues, and conflicting perspectives about the tissue SSOs that need to be clarified, leading to possible further revisions.	
Actions Being Taking to Address Delay:	Continuing to work towards clarification on these BPA issues.	
Contact Person:	Wanda Cross	(951) 782-4468
Notes:		

SAN DIEGO WATER BOARD TMDL PROGRAM
Fiscal Year 2009-2010
Accomplishments and Challenges

This summary identifies those accomplishments and challenges of the San Diego Water Board TMDL Program that are not reflected in the 2009-2010 End of Year Report generated by Planner Tracker.

Accomplishments

1. Adopted 2008 CWA Integrated Report (303(d) and 305(b)Lists)

The San Diego Water Board adopted its 2008 Clean Water Act (CWA) Integrated Report on December 16, 2009 following two public hearings. The San Diego Water Board assigned two technical staff to the project for two years, and dedicated four technical staff and one senior staff over the course of the final six months to complete the 305(b)/303(d) Integrated Report for the San Diego Region, update the CalWQA database, respond to over 400 public comments, convene one public workshop (on October 12, 2009) and two public hearings (on November 18 and December 16, 2009. The 305(b)/303(d) Integrated Report for the San Diego Region was based upon 1,900 lines of evidence (LOEs), evaluation of 2,470 (new, updated or carryover) decisions , and resulted in staff recommendations on 1,570 new listing decisions for 2008. None of the San Diego Water Board's listings re slated for re-evaluation by the State Board at this time.

2. Delisted Seventeen 2006 CWA Section 303(d) Listings

A total of 17 waters were delisted from the 2006 CWA Section 303(d) list including Agua Hedionda Lagoon, Long Canyon, Pine Valley, several bacteria-impaired sites along San Diego Bay shoreline, and others (removed from 2008 303(d) List). Many others listings were also delisted primarily for administrative reasons (e.g., to make listings consistent, etc.).

3. Adopted *Revised Bacteria TMDLs for Indicator Bacteria Project I --Twenty Beaches and Creeks in the San Diego Region (Including Tecolote Creek)*

The San Diego Water Board adopted Resolution No. R9-2010-0001 to amend the Basin Plan to incorporate the revised TMDLs for twenty bacteria-impaired beaches and creeks in the San Diego Region, including Tecolote Creek, on February 10, 2010.

The original Bacteria TMDLs Project I adopted by the San Diego Water Board in December 2007 included nineteen impaired waters and based calculations on a Reference System Antidegradation Approach (RSSA/NSEA) Basin Plan amendment that was under development at the time, but not yet adopted. In December 2008, the San Diego Water Board withdrew the original Bacteria TMDLs Project I from State Water Board consideration in order to make revisions related to its newly adopted RSAA Basin Plan amendment (adopted May 2008) and to incorporate numerous other recommendations from State Board staff.
The most important change was to make clear how compliance with the TMDLs will be determined.

In addition, to make more efficient use of reduced resources, the San Diego Water Board decided to add Tecolote Creek, another bacteria-impaired water, to the Revised Bacteria TMDLs Project I. With the addition of Tecolote Creek, the number of 303(d)

listed waterbodies addressed in this single project was increased from 19 to a total of 20.

Its worth noting that the count of 20 303(d) listings addressed in this single project was based on the 2002 CWA 303(d) List. However, ***if the listing count is based on the newly adopted 2008 CWA 303(d) List, the Revised Bacteria TMDL Project I addressed 50 CWA 303(d) listings.***

4. Adopted Tecolote Creek Bacteria TMDLs

Adoption of TMDLs to address the bacteria impairment in Tecolote Creek was a 09/10 Work Plan commitment. As discussed above, Tecolote Creek was added to the Revised Bacteria TMDL Project I adopted by the San Diego Water Board in February of 2010.

5. Implemented Bacteria TMDLs Project II for Dana Point Harbor and San Diego Bay

The San Diego Water Board adopted (renewed) its MS4 Permit for Orange County in December 2009. As required, the renewed permit included waste load allocations, TMDLs, and the implementation schedule from the Bacteria TMDL Project II adopted by the San Diego Water Board in June 2008. The Bacteria TMDLs Project II addressed bacteria impairment at Baby Beach in Dana Point Harbor and Shelter Island Shoreline Park in San Diego Bay.

6. Signed MOU for Los Penasquitos Lagoon Sedimentation "Third Party" TMDLs

The Executive Officer signed a Memorandum of Understanding (MOU) with the Los Penasquitos Lagoon TMDL Stakeholder Group to cooperate in development of TMDLs to address excessive sedimentation in Los Penasquitos Lagoon. This TMDL project is the San Diego Water Board's first experience with a "third party" TMDL and the City of San Diego has provided significant funding for the project. It is anticipated that the Los Penasquitos Lagoon TMDL will be sent out for peer review in August and adopted by the San Diego Water Board in FY 2010-11.

7. Continued Tijuana River Watershed Trash and Sediment TMDLs Project

The Tijuana River Watershed is a Measure W high priority watershed. This past year, the San Diego Water Board worked with Tetra Tech to develop the final modeling evaluations and a TMDL development plan to address water quality impairments in the Tijuana River watershed. USEPA Region 9 contracts with Tetra Tech to support the development of TMDLs in Southern California. The development plan was completed in February 2010, and the Draft TMDL Technical Report should be ready for peer review in September 2010. It is anticipated that the Tijuana River Watershed TMDL will be adopted by the San Diego Water Board in FY 2010-11.

The Tijuana Estuary and six miles of the lower Tijuana River are designated as impaired on the 2006 Clean Water Act Section 303(d) list for solids (river), turbidity (estuary), and trash (both).

8. Continued San Diego Bay Contaminated Sediment Cleanup Project at NASSCO and BAE Systems (aka Southwest Marine) Shipyards

The designated parties and Cleanup Team participated in intensive mediated settlement efforts (from June 9, 2008 to June 30, 2010) to negotiate bay sediment clean up levels. The designated parties also negotiated separately regarding allocation of costs for the

cleanup. The parties have successfully reached an agreement in principle on the appropriate cleanup levels, and the range of remedial actions to clean up the site, a pre- and post-monitoring plan, and the required formal approvals needed from the various entities. The Cleanup Team released a revised tentative cleanup and abatement Order (CAO) and draft Technical Report on December 22, 2009 for public review. The documents are now being revised to incorporate comments from the designated parties and are scheduled to be re-released in late August 2010.

Issuance of a cleanup and abatement order is subject to the California Environmental Quality Act (CEQA). The Cleanup Team initiated the CEQA process in November 2009 and held a CEQA Scoping Meeting on January 21, 2010. The parties are currently in the process of selecting a contractor to prepare an environmental impact report for the project. The Cleanup Team's goal is to schedule the tentative CAO for consideration by the San Diego Water Board members in spring 2011. This multi-year shipyard sediment cleanup project continues to be exceedingly complex, controversial, and resource intensive.

9. Convened Loma Alta Lagoon TMDL Stakeholder Group

The SCCWRP data report on the Loma Alta Slough impairment for nutrients and bacteria was recently received and the modeling contractor selected. The San Diego Water Board and SCCWRP convened the Loma Alta Lagoon TMDL Stakeholder Group to review the data report and initiate plans for TMDL development. The Loma Alta TMDL is slated for adoption in FY 2011-12.

Challenges and Responses to Challenges

1. Three Full-Time Staff Positions Lost

Resources (staffing and contracts supported by General Funds) have been cut from both the TMDL and Basin Planning programs. The TMDL program (which is run out of two units) lost two full-time positions in early 2010 due to budget constraints. In addition (near the end of the fiscal year), one of the two units also lost its supervisor due to budget constraints. ***The San Diego TMDL program is now a total of three full-time positions short; two line staff and one supervisor.***

Additionally mandatory furlough days had a significant detrimental effect on most of the San Diego Water Board's programs. In response to furloughs and resource cuts, the San Diego Water Board continually reviewed and re-prioritized current projects and management considered program work reductions to reflect the three-furlough days per month.

2. Mouth of Paleta Creek (Seventh Street Channel), Mouth of Chollas Creek, and Mouth of Switzer Creek TMDLs Delayed Due to Staff Redirection

Completion of the draft Technical Report *Toxic Pollutants in Sediment TMDLs for Paleta, Chollas, and Switzer Creeks* was significantly delayed pending USEPA approval of Federal In-kind Services contract funding. This funding was used by Tetra Tech to complete additional work on the watershed model that was needed to provide the basis for TMDL allocation to stakeholders. Although the final product was received from Tetra Tech in mid-October 2009, work on the Paleta, Chollas, and Switzer TMDL project could not proceed until after completion and adoption of the CWA 305(b) and 303(d) Integrated Report in December 2009.

The shipyard contaminated sediment CAO mentioned above is another very high priority effort to which significant TMDL staff time has been redirected. Continual redirection of TMDL staff to higher priority efforts has delayed the timeline for completing the Work Plan commitments for the peer review and public review processes on this TMDL project. Redirection of TMDL staff to the shipyard CAO will continue into FY 2010-11. The Chollas Creek Watershed is a Measure W high priority watershed.

3. Coastal Lagoons TMDL Projects Delayed Due to Staff Losses, Redirection, and Furloughs

The San Diego Water Board originally planned to develop TMDLs for seven coastal lagoons (i.e., Agua Hedionda, Buena Vista, Famosa, Loma Alta, Los Peñasquitos, San Elijo, and Santa Margarita). Modeling efforts were significantly delayed by reductions in the Federal In-kind Services contract funding at the onset of FY2008-2009. That reduction required the San Diego Water Board to reprioritize projects and allocate the surviving contract fund resources to completing the modeling for the Los Peñasquitos Lagoon Sedimentation TMDL. Once Agua Hedionda Lagoon was removed from the CWA 303(d) List, the TMDL funds that were slated for the Agua Hedionda Lagoon project were to be transferred to the Famosa Slough project; however, the transfer of funds was delayed at USEPA and is still pending as of July 2010.

The loss of three TMDL positions, combined with staff redirections and furloughs effectively impacted our ability to support third-party TMDL efforts for Famosa Slough and Channel Eutrophic Conditions, and Santa Margarita Lagoon Eutrophic Conditions projects. As a result, San Diego Water Board management made a decision to delay our efforts to advance the Famosa Slough and Channel, and the Santa Margarita Lagoon TMLD projects during the 2009-2010 fiscal year.

Initiatives in TMDL Implementation

1. Several TMDLs Have Been Implemented by San Diego Water Board

TMDL Implementation progress to date includes the incorporation of Bacteria Project I TMDL requirements into the San Diego County MS4 Permit and the Bacteria Project II TMDL requirements into the Orange County MS4 Permit. In addition, some of the MS4 copermittees have initiated implementation of BMPs to begin mandatory wasteload reductions.

Although implementation of TMDLs by other programs and “TMDLs Transfer Plans” have been less than effective in the past, current technical staff and management are renewing efforts to initiate more effective steps to make TMDLs enforceable, including: (a) convening internal cross program meetings to mutually agree upon TMDL development and implement strategies; (b) internal review of TMDL drafts prior to public release; and (c) incorporating (or making plans to incorporate) TMDLs and WLAs into MS4 permits.

San Diego Regional Water Board
Status Update-Regional Board Adoption of TMDLs in FY 09-10
June 2010

TMDL(s) Adopted in FY 09-10 per Workplan:

1. **Bacteria Impaired Waters I (creeks & beach shorelines) TMDLs (Bacteria I TMDLs Project) and Tecolote Creek Indicator Bacteria TMDLs.** These TMDL projects address 20 303(d) Listing according to the 2002 303(d) List (and 50 listings according to the 2008 303(d) List).

Pending FY 09/10 TMDL(s) That Will Not Be Adopted Before June 30, 2010

Region: # 9	**TMDL: Mouth of Chollas, Mouth of Paleta (Seventh Street Channel), and Mouth of Switzer Creek TMDL**	
FY 09/10 Workplan RB Adoption Date: 06/2010	Revised Adoption Date: 06/2011	
Expected Status as of June 30, 2010	Delayed	
Reasons for Delay:	• The Draft Report required completion of additional work by Tetra Tech on the watershed model that was used to provide a basis for TMDL allocation to stakeholders. Tetra Tech was waiting on U .S. EPA approval of Federal In-kind Services contract funding before beginning the work. • The final product was received in mid-October; however, priorities at the San Diego Water Board dictated that work on this project could not proceed until December 2009, after Board approval of the CWA Integrated Report (sections 305(b) and 303(d)). • Two other projects were given priority in the latter half of FY 09-10, the Shipyards Sediment Site CAO and the Loma Alta Slough TMDL, which required a significant percentage of work hours.	
Actions Being Taking to Address Delay:	The Draft TMDL Report will be ready to go to peer review once the peer review package has been prepared. This task will be made a priority.	
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Notes:		